

PLA Material Family Comparison



3DP Iceland Labs
Generated with 3DP Iceland Engineering Platform v60.0.6 WORKFLOW-RELIABILITY - Bug Fixes and Workflow Reliability
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Public-data contract: only explicitly allowlisted MaterialIDs and existing Verified Material Summary scores are included. No measurements or scores are recalculated.

Comparison scope: Stable Material Family preset for PLA. Every included MaterialID has explicit Public reports opt-in.

Materials compared
124

Overall score available
124

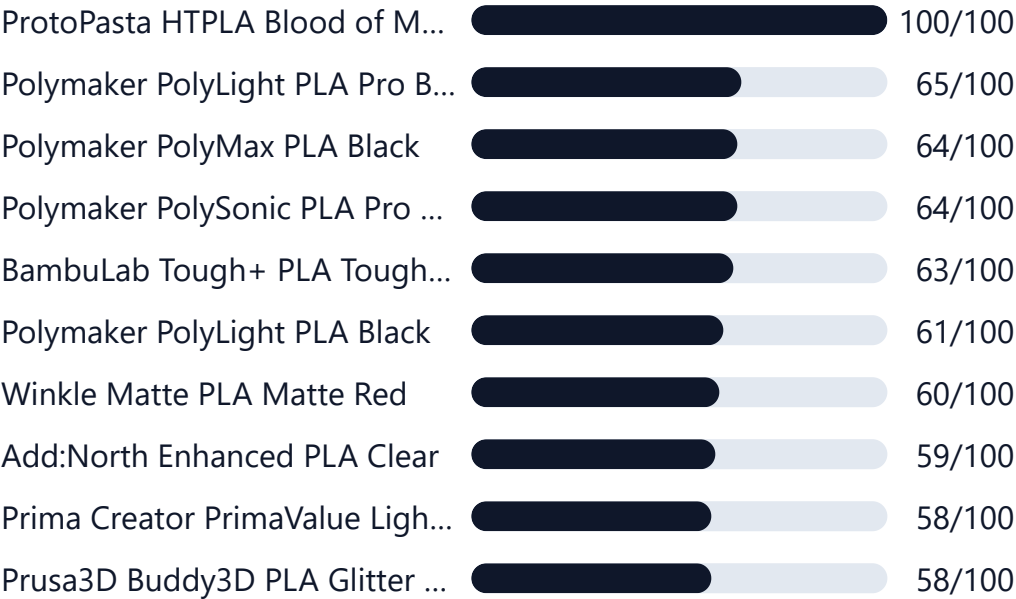
All 6 axes available
105

Engineering-axis leaders in this comparison

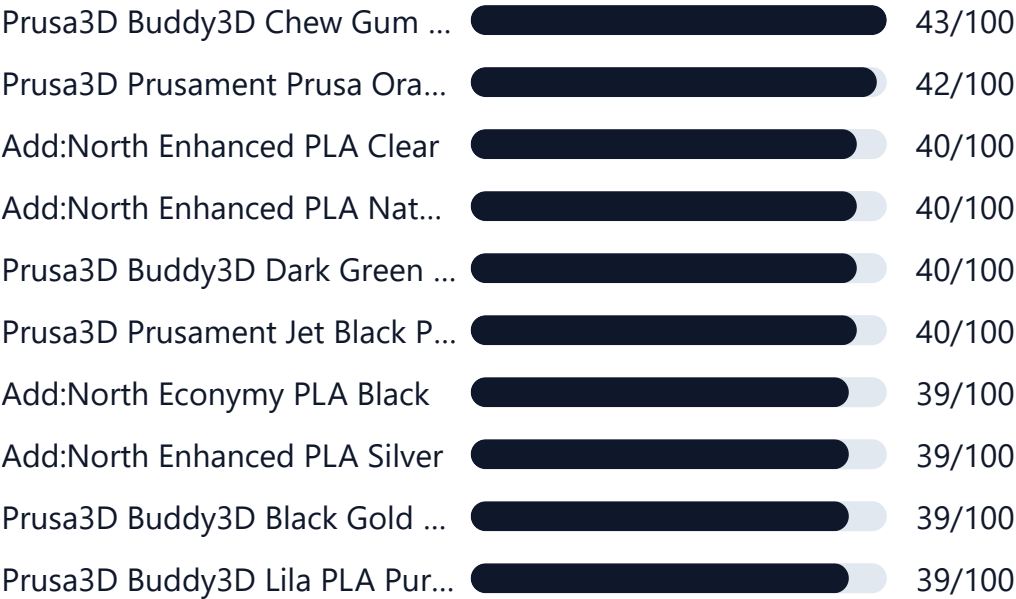
Axis	Leading material	Score
Overall	ProtoPasta HTPLA Blood of My Enemies PLA Red	100
Tensile	Prusa3D Buddy3D Chew Gum Pink PLA Pink	43
Impact	Polymaker PolyMax PLA Black	62
Stiffness	BambuLab Matte PLA Matte Black	100
Consistency	Add:North Enhanced PLA Clear	90

Axis	Leading material	Score
Layer adhesion	Polymaker PolyLight PLA Black	83
Thermal	Prusa3D Prusament Prusa Orange PLA Orange	30

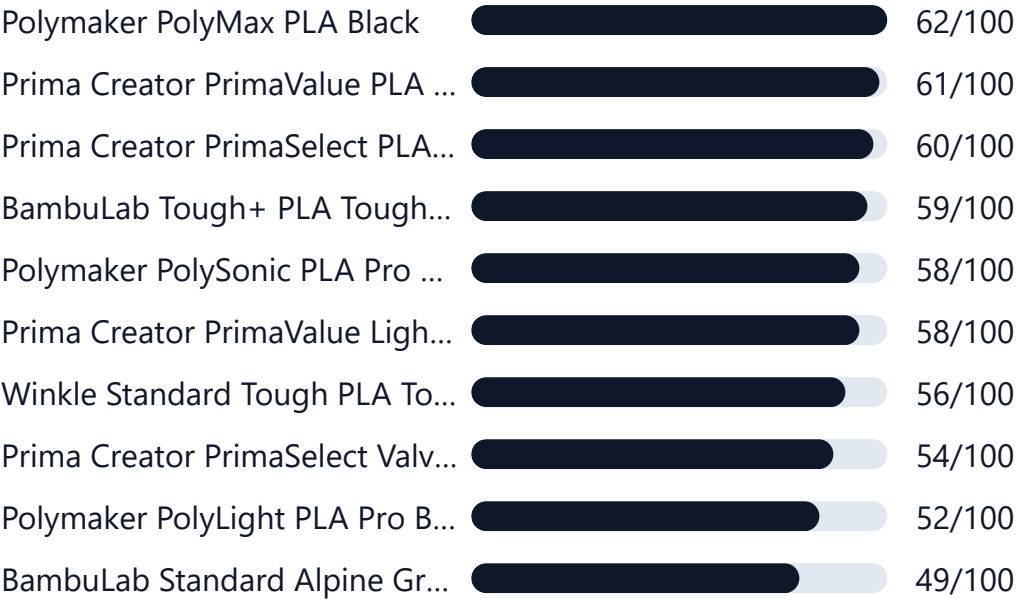
Overall comparison



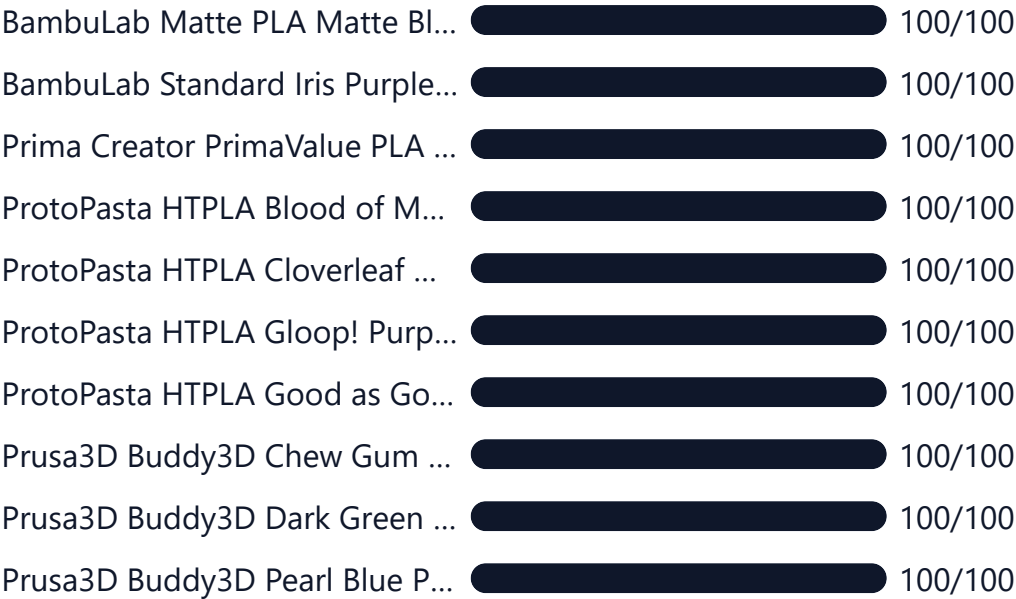
Tensile comparison



Impact comparison



Stiffness comparison



Thermal comparison



Materials and evidence context

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0069	ProtoPasta HTPLA Blood of My Enemies PLA Red	ProtoPasta	HTPLA	PLA		Partial	1/6
MAT0079	Polymaker PolyLight PLA Pro Black	Polymaker	PolyLight	PLA		Complete	6/6
MAT0109	Polymaker PolyMax PLA Black	Polymaker	PolyMax	PLA		Complete	6/6
MAT0080	Polymaker PolySonic PLA Pro Blue	Polymaker	PolySonic	PLA		Complete	5/6
MAT0076	BambuLab Tough+ PLA Tough+ Black	BambuLab	Tough+	PLA		Complete	6/6
MAT0108	Polymaker PolyLight PLA Black	Polymaker	PolyLight	PLA		Complete	5/6
MAT0074	Winkle Matte PLA Matte Red	Winkle	Matte	PLA		Partial	5/6
MAT0122	Add:North Enhanced PLA Clear	Add:North	Enhanced	PLA		Complete	5/6
MAT0096	Prima Creator PrimaValue Light Gray PLA Plus Gray	Prima Creator	PrimaValue	PLA		Complete	6/6
MAT0139	Prusa3D Buddy3D PLA Glitter Red	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0135	Prusa3D Buddy3D Chew Gum Pink PLA Pink	Prusa3D	Buddy3D	PLA		Complete	6/6

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0136	Prusa3D Buddy3D Lila PLA Purple	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0103	Prusa3D Buddy3D PLA Beige	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0132	Prusa3D Buddy3D PLA Glitter Green	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0131	Prusa3D Buddy3D PLA Green	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0112	Prusa3D Prusament Galaxy Black PLA Black	Prusa3D	Prusament	PLA		Complete	6/6
MAT0066	ProtoPasta HTPLA Cloverleaf Metallic Green PLA Metal Green	ProtoPasta	HTPLA	PLA		Complete	5/6
MAT0111	Prusa3D Buddy3D Black Gold PLA Glitter Black	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0133	Prusa3D Prusament Mystic Green PLA Green	Prusa3D	Prusament	PLA		Complete	6/6
MAT0203	Prusa3D Prusament Prusa Orange PLA Orange	Prusa3D	Prusament	PLA		Complete	6/6
MAT0230	Spectrum Premium Tooling Yellow PLA Yellow	Spectrum	Premium	PLA		Complete	6/6
MAT0154	Thorwell Standard PLA Plus PLA Plus White	Thorwell	Standard	PLA		Complete	6/6
MAT0161	Winkle Standard Confeti PLA HD Texture Brown	Winkle	Standard	PLA		Complete	6/6
MAT0159	Winkle Standard Tough PLA Tough Black	Winkle	Standard	PLA		Complete	6/6
MAT0130	Add:North Enhanced PLA Green	Add:North	Enhanced	PLA		Complete	5/6
MAT0125	Prima Creator PrimaSelect Galaxy Black PLA Marble Gray	Prima Creator	PrimaSelect	PLA		Complete	6/6
MAT0105	Prima Creator PrimaSelect PLA Tough Black	Prima Creator	PrimaSelect	PLA		Complete	6/6
MAT0101	Prima Creator PrimaValue PLA High Speed Gray	Prima Creator	PrimaValue	PLA		Complete	6/6
MAT0220	Prusa3D Buddy3D Dark Green PLA Glitter Green	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0137	Prusa3D Prusament Galaxy Purple PLA Purple	Prusa3D	Prusament	PLA		Complete	5/6
MAT0164	Winkle Standard Glaciar White PLA High Speed White	Winkle	Standard	PLA		Complete	6/6
MAT0140	Add:North Enhanced PLA Silver	Add:North	Enhanced	PLA		Complete	5/6
MAT0121	Fillamentum Extrafill Brown PLA Glitter Brown	Fillamentum	Extrafill	PLA		Partial	3/6
MAT0129	Prima Creator PrimaSelect Velvet Green PLA Metal Green	Prima Creator	PrimaSelect	PLA		Complete	6/6
MAT0067	ProtoPasta HTPLA Tangerine Orange PLA Orange	ProtoPasta	HTPLA	PLA		Complete	6/6
MAT0116	Prusa3D Buddy3D Pearl Blue PLA Blue	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0205	Prusa3D Prusament Marble Gray PLA Marble Gray	Prusa3D	Prusament	PLA		Complete	6/6
MAT0106	Add:North Econymy PLA Black	Add:North	Econymy	PLA		Complete	6/6
MAT0110	Polymaker PolySonic PLA Black	Polymaker	PolySonic	PLA		Complete	6/6
MAT0099	Prima Creator PrimaSelect Dark Brown PLA CF Brown	Prima Creator	PrimaSelect	PLA	CF	Complete	6/6
MAT0065	ProtoPasta HTPLA Good as Gold PLA Gold	ProtoPasta	HTPLA	PLA		Complete	6/6
MAT0138	Prusa3D Buddy3D Pearl Red PLA Red	Prusa3D	Buddy3D	PLA		Complete	6/6

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0118	Prusa3D Prusament Azure Blue PLA Blue	Prusa3D	Prusament	PLA		Complete	6/6
MAT0143	Prusa3D Prusament Corn Pigment PLA Recycled Brown	Prusa3D	Prusament	PLA		Complete	6/6
MAT0204	Prusa3D Prusament Jet Black PLA Black	Prusa3D	Prusament	PLA		Complete	6/6
MAT0182	Sunlu Standard Blue PLA High Speed Blue	Sunlu	Standard	PLA		Complete	6/6
MAT0155	Thorwell Standard PLA White	Thorwell	Standard	PLA		Complete	6/6
MAT0160	Winkle Standard Canary Yellow PLA High Speed Yellow	Winkle	Standard	PLA		Complete	6/6
MAT0157	Winkle Standard Recycled PLA Recycled Gray	Winkle	Standard	PLA		Complete	6/6
MAT0162	Winkle Standard Winkle Purple PLA HD Purple	Winkle	Standard	PLA		Complete	6/6
MAT0107	BambuLab Basic PLA Black	BambuLab	Basic	PLA		Complete	6/6
MAT0070	BambuLab Matte PLA Matte Black	BambuLab	Matte	PLA		Complete	6/6
MAT0176	BambuLab Standard Alpine Green Sparkle PLA Sparkle Green	BambuLab	Standard	PLA		Complete	6/6
MAT0172	BambuLab Standard Glow Blue PLA Glow Blue	BambuLab	Standard	PLA		Complete	6/6
MAT0068	ProtoPasta HTPLA Gloop! Purple PLA Purple	ProtoPasta	HTPLA	PLA		Complete	6/6
MAT0221	Prusa3D Buddy3D Pearl Green PLA Green	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0117	Prusa3D Buddy3D PLA Glitter Blue	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0177	BambuLab Standard White Marble PLA Marble White	BambuLab	Standard	PLA		Complete	6/6
MAT0104	Prima Creator EasyPrint Black PLA Black	Prima Creator	EasyPrint	PLA		Complete	6/6
MAT0124	Prima Creator EasyPrint Light Gray PLA Gray	Prima Creator	EasyPrint	PLA		Complete	6/6
MAT0113	Prima Creator PrimaSelect Dark Blue PLA Blue	Prima Creator	PrimaSelect	PLA		Complete	6/6
MAT0188	Sunlu Standard Orange PLA High Speed Orange	Sunlu	Standard	PLA		Complete	6/6
MAT0189	Sunlu Standard Pink PLA High Speed Pink	Sunlu	Standard	PLA		Complete	6/6
MAT0127	Yasin Standard Gray PLA Gray	Yasin	Standard	PLA		Complete	6/6
MAT0134	Add:North Enhanced PLA Natural	Add:North	Enhanced	PLA		Partial	4/6
MAT0174	BambuLab Standard Oxide Green Metallic PLA Metal Green	BambuLab	Standard	PLA		Complete	6/6
MAT0193	Elegoo Standard Sea Green PLA Plus Green	Elegoo	Standard	PLA		Complete	6/6
MAT0192	Elegoo Standard Sky Blue PLA Plus Blue	Elegoo	Standard	PLA		Complete	6/6
MAT0183	Sunlu Standard Green PLA High Speed Green	Sunlu	Standard	PLA		Complete	6/6
MAT0186	Sunlu Standard White PLA High Speed White	Sunlu	Standard	PLA		Complete	6/6
MAT0156	Thorwell Standard PLA Black	Thorwell	Standard	PLA		Complete	6/6
MAT0178	BambuLab Standard Iris Purple PLA CF Purple	BambuLab	Standard	PLA	CF	Complete	6/6
MAT0190	Elegoo Standard Orange PLA Plus Orange	Elegoo	Standard	PLA		Complete	6/6

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0191	Elegoo Standard Yellow PLA Plus Yellow	Elegoo	Standard	PLA	GF	Complete	6/6
MAT0185	Sunlu Standard Red PLA High Speed Red	Sunlu	Standard	PLA		Complete	6/6
MAT0187	Sunlu Standard Black PLA High Speed Black	Sunlu	Standard	PLA		Complete	6/6
MAT0158	Winkle Standard Smokey Gray PLA Matte Gray	Winkle	Standard	PLA		Complete	5/6
MAT0100	Prima Creator PrimaValue PLA GF Natural	Prima Creator	PrimaValue	PLA	CF	Complete	6/6
MAT0086	Prusa3D Buddy3D PLA Silk Gold	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0126	Prusa3D Prusament Galaxy Silver PLA Gray	Prusa3D	Prusament	PLA		Complete	6/6
MAT0141	Prusa3D Prusament Vanilla White PLA White	Prusa3D	Prusament	PLA		Complete	5/6
MAT0119	Thorwell Standard PLA Blue	Thorwell	Standard	PLA		Complete	5/6
MAT0142	Thorwell Standard PLA Yellow	Thorwell	Standard	PLA		Complete	6/6
MAT0073	BambuLab Matte Lillac Purple PLA Matte Purple	BambuLab	Matte	PLA		Complete	6/6
MAT0123	Prima Creator PrimaSelect PLA Pastel Cyan	Prima Creator	PrimaSelect	PLA		Complete	6/6
MAT0098	Prima Creator PrimaValue Black PLA CF Black	Prima Creator	PrimaValue	PLA	CF	Complete	6/6
MAT0090	Prusa3D Buddy3D PLA Silk Pink	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0093	Prusa3D Buddy3D PLA Silk Red	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0226	Spectrum Greeney Pro Real Green PLA Green	Spectrum	Greeney Pro	PLA		Complete	6/6
MAT0184	Sunlu Standard Yellow PLA High Speed Yellow	Sunlu	Standard	PLA		Complete	6/6
MAT0089	Winkle Silk PLA Silk Green	Winkle	Silk	PLA		Complete	6/6
MAT0075	BambuLab Matte Ivory White PLA Matte White	BambuLab	Matte	PLA		Complete	6/6
MAT0243	Landu Standard Black PLA Plus Black	Landu	Standard	PLA		Complete	6/6
MAT0223	Prusa3D Buddy3D PLA Silk Blue	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0085	Prusa3D Buddy3D PLA Silk Copper	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0081	Prusa3D Prusament Viva La Bronze PLA Silk Bronze	Prusa3D	Prusament	PLA		Complete	6/6
MAT0095	Polymaker PolyTerra PLA Black	Polymaker	PolyTerra	PLA		Complete	5/6
MAT0128	Prima Creator PrimaSelect Glow in the Dark PLA Glow Green	Prima Creator	PrimaSelect	PLA		Complete	6/6
MAT0072	Prima Creator PrimaSelect Warm Gray PLA Matte Gray	Prima Creator	PrimaSelect	PLA		Complete	6/6
MAT0082	Prusa3D Buddy3D PLA Silk Black	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0234	Yasin Standard Black PLA CF Black	Yasin	Standard	PLA		Complete	6/6
MAT0071	BambuLab Matte Latte Brown PLA Matte Brown	BambuLab	Matte	PLA	CF	Complete	6/6
MAT0083	Prusa3D Buddy3D Ice Blue PLA Silk Blue	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0087	Prusa3D Prusament Oh My Gold PLA Silk Gold	Prusa3D	Prusament	PLA		Complete	6/6

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0091	Yasin Standard Silk PLA Silk Pink	Yasin	Standard	PLA		Complete	6/6
MAT0175	BambuLab Standard Black Walnut PLA Wood Brown	BambuLab	Standard	PLA	Wood	Complete	6/6
MAT0115	Extrudr BioFusion Blue Fire PLA Blue	Extrudr	BioFusion	PLA		Complete	6/6
MAT0064	Polymaker HTPLA PLA Black	Polymaker	HTPLA	PLA		Complete	6/6
MAT0114	Prima Creator PrimaSelect Abyss Blue PLA Satin Blue	Prima Creator	PrimaSelect	PLA		Complete	6/6
MAT0153	Thorwell Standard Wood PLA Wood Brown	Thorwell	Standard	PLA	Wood	Complete	6/6
MAT0163	Winkle Standard Maple Wood PLA HD Wood White	Winkle	Standard	PLA	Wood	Complete	6/6
MAT0094	Yasin Standard Soft PLA PLA Soft White	Yasin	Standard	PLA		Partial	4/6
MAT0233	Yasin Standard White PLA matt White	Yasin	Standard	PLA		Complete	6/6
MAT0097	Polymaker PolyTerra PLA Plus Green	Polymaker	PolyTerra	PLA		Complete	5/6
MAT0145	Yasin Standard Wood PLA Wood Wood Brown	Yasin	Standard	PLA	Wood	Complete	6/6
MAT0173	BambuLab Standard Purple PLA Silk+ Purple	BambuLab	Standard	PLA		Complete	6/6
MAT0222	Prusa3D Buddy3D Dark Gold PLA Silk Gold	Prusa3D	Buddy3D	PLA		Complete	6/6
MAT0102	Prima Creator PrimaValue PLA Lightweight Black	Prima Creator	PrimaValue	PLA		Complete	6/6
MAT0219	Eryone Standard Radiant Gold PLA Silk Yellow	Eryone	Standard	PLA		Complete	6/6
MAT0144	Prusa3D Prusament Linden Light PLA Wood Wood Brown	Prusa3D	Prusament	PLA	Wood	Complete	6/6
MAT0224	Spectrum The Filament Vivid Red PLA Hight Temp Red	Spectrum	The Filament	PLA		Complete	6/6
MAT0120	Winkle Standard PLA HD Blue	Winkle	Standard	PLA		Partial	3/6
MAT0147	Thorwell Standard Silk PLA Silk Blue	Thorwell	Standard	PLA		Complete	6/6
MAT0092	Polyalchemy Elixir Fire PLA Silk Red	Polyalchemy	Elixir	PLA		Complete	5/6

Side-by-side engineering scores

Mater ialID	Material	Manuf acturer	Reinfor cement	Cove rage	Evid ence	Ove rall	Ten sile	Imp act	Stiff ness	Consis tency	Layer adhesio n	Ther mal	Fixtu re °C	Method	Thermal limitation	MSRP USD/kg
MAT0069	ProtoPasta HTPLA Blood of My Enemies PLA Red	ProtoPa sta		Partia l	1/6	100/100	—	—	100/100	—	—	—	n/a			\$91.74
MAT0079	Polymaker PolyLight PLA Pro Black	Polyma ker		Com plete	6/6	65/100	35/100	52/100	84/100	84/100	71/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$32.13
MAT0109	Polymaker PolyMax PLA Black	Polyma ker		Com plete	6/6	64/100	32/100	62/100	68/100	90/100	70/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$52.12

MaterialID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0080	Polymaker PolySonic PLA Pro Blue	Polymaker		Complete	5/6	64/100	30/100	58/100	75/100	89/100	66/100	—	n/a			\$33.03
MAT0076	BambuLab Tough+ PLA Tough+ Black	BambuLab		Complete	6/6	63/100	26/100	59/100	65/100	90/100	73/100	25/100	50 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$47.92
MAT0108	Polymaker PolyLight PLA Black	Polymaker		Complete	5/6	61/100	33/100	14/100	88/100	88/100	83/100	—	n/a			\$27.78
MAT0074	Winkle Matte PLA Matte Red	Winkle		Partial	5/6	60/100	34/100	—	63/100	83/100	60/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$39.96
MAT0122	Add:North Enhanced PLA Clear	Add:North		Complete	5/6	59/100	40/100	10/100	92/100	90/100	61/100	—	n/a			\$32.00
MAT0096	Prima Creator PrimaValue Light Gray PLA Plus Gray	Prima Creator		Complete	6/6	58/100	33/100	58/100	82/100	84/100	34/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$15.57
MAT0139	Prusa3D Buddy3D PLA Glitter Red	Prusa3D		Complete	6/6	58/100	37/100	17/100	100/100	83/100	54/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$20.80
MAT0135	Prusa3D Buddy3D Chew Gum Pink PLA Pink	Prusa3D		Complete	6/6	57/100	43/100	15/100	100/100	84/100	45/100	28/100	55 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$15.20
MAT0136	Prusa3D Buddy3D Lila PLA Purple	Prusa3D		Complete	6/6	57/100	39/100	12/100	88/100	86/100	61/100	28/100	55 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$20.00
MAT0103	Prusa3D Buddy3D PLA Beige	Prusa3D		Complete	6/6	57/100	37/100	21/100	100/100	83/100	45/100	28/100	56 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$26.80
MAT0132	Prusa3D Buddy3D PLA Glitter Green	Prusa3D		Complete	6/6	57/100	37/100	20/100	100/100	85/100	46/100	28/100	55 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.60
MAT0131	Prusa3D Buddy3D PLA Green	Prusa3D		Complete	6/6	57/100	35/100	19/100	99/100	81/100	49/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$15.20
MAT0112	Prusa3D Prusament Galaxy Black PLA Black	Prusa3D		Complete	6/6	57/100	38/100	24/100	96/100	80/100	49/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$30.40
MAT0066	ProtoPasta HTPLA Cloverleaf Metallic Green PLA Metal Green	ProtoPasta		Complete	5/6	56/100	29/100	9/100	100/100	80/100	62/100	—	n/a			\$91.74
MAT0111	Prusa3D Buddy3D Black Gold PLA Glitter Black	Prusa3D		Complete	6/6	56/100	39/100	18/100	99/100	83/100	39/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPlceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.20

Material ID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0133	Prusa3D Prusament Mystic Green PLA Green	Prusa3D		Complete	6/6	56/100	38/100	22/100	99/100	84/100	36/100	22/100	44 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$25.60
MAT0203	Prusa3D Prusament Prusa Orange PLA Orange	Prusa3D		Complete	6/6	56/100	42/100	20/100	93/100	86/100	41/100	30/100	59 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$25.60
MAT0230	Spectrum Premium Tooling Yellow PLA Yellow	Spectrum		Complete	6/6	56/100	37/100	17/100	100/100	81/100	45/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$35.92
MAT0154	Thorwell Standard PLA Plus PLA Plus White	Thorwell		Complete	6/6	56/100	36/100	32/100	88/100	80/100	44/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$32.00
MAT0161	Winkle Standard Confeti PLA HD Texture Brown	Winkle		Complete	6/6	56/100	34/100	19/100	100/100	86/100	41/100	25/100	49 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$47.96
MAT0159	Winkle Standard Tough PLA Tough Black	Winkle		Complete	6/6	56/100	32/100	56/100	78/100	83/100	33/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$39.96
MAT0130	Add:North Enhanced PLA Green	Add:North		Complete	5/6	55/100	37/100	14/100	92/100	83/100	47/100	—	n/a			\$32.00
MAT0125	Prima Creator PrimaSelect Galaxy Black PLA Marble Gray	Prima Creator		Complete	6/6	55/100	31/100	49/100	81/100	85/100	30/100	29/100	58 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.65
MAT0105	Prima Creator PrimaSelect PLA Tough Black	Prima Creator		Complete	6/6	55/100	27/100	60/100	72/100	78/100	39/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$22.52
MAT0101	Prima Creator PrimaValue PLA High Speed Gray	Prima Creator		Complete	6/6	55/100	30/100	61/100	76/100	84/100	23/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$19.04
MAT0220	Prusa3D Buddy3D Dark Green PLA Glitter Green	Prusa3D		Complete	6/6	55/100	40/100	17/100	100/100	80/100	36/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.60
MAT0137	Prusa3D Prusament Galaxy Purple PLA Purple	Prusa3D		Complete	5/6	55/100	32/100	14/100	96/100	84/100	50/100	—	n/a			\$30.40
MAT0164	Winkle Standard Glacier White PLA High Speed White	Winkle		Complete	6/6	55/100	36/100	19/100	100/100	82/100	36/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$55.96
MAT0140	Add:North Enhanced PLA Silver	Add:North		Complete	5/6	54/100	39/100	12/100	90/100	80/100	49/100	—	n/a			\$32.00
MAT0121	Fillamentum Extrafill Brown PLA Glitter Brown	Fillamentum		Partial	3/6	54/100	36/100	—	—	78/100	48/100	—	n/a			\$28.75

Material ID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0129	Prima Creator PrimaSelect Valvet Green PLA Metal Green	Prima Creator	CF	Complete	6/6	54/100	29/100	54/100	74/100	85/100	30/100	29/100	58 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.65
MAT0067	ProtoPasta HTPLA Tangerine Orange PLA Orange	ProtoPasta		Complete	6/6	54/100	36/100	22/100	98/100	81/100	32/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$91.74
MAT0116	Prusa3D Buddy3D Pearl Blue PLA Blue	Prusa3D		Complete	6/6	54/100	34/100	24/100	100/100	79/100	35/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$26.80
MAT0205	Prusa3D Prusament Marble Gray PLA Marble Gray	Prusa3D		Complete	6/6	54/100	37/100	18/100	100/100	81/100	32/100	29/100	58 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$25.60
MAT0106	Add:North Econymy PLA Black	Add:North		Complete	6/6	53/100	39/100	12/100	91/100	75/100	48/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$31.92
MAT0110	Polymaker PolySonic PLA Black	Polymaker	CF	Complete	6/6	53/100	25/100	17/100	85/100	82/100	53/100	25/100	49 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$28.68
MAT0099	Prima Creator PrimaSelect Dark Brown PLA CF Brown	Prima Creator		Complete	6/6	53/100	31/100	31/100	98/100	80/100	25/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$22.52
MAT0065	ProtoPasta HTPLA Good as Gold PLA Gold	ProtoPasta		Complete	6/6	53/100	33/100	21/100	100/100	80/100	29/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$91.74
MAT0138	Prusa3D Buddy3D Pearl Red PLA Red	Prusa3D		Complete	6/6	53/100	35/100	18/100	100/100	80/100	34/100	28/100	55 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$16.80
MAT0118	Prusa3D Prusament Azure Blue PLA Blue	Prusa3D		Complete	6/6	53/100	36/100	10/100	99/100	71/100	47/100	28/100	56 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$26.00
MAT0143	Prusa3D Prusament Corn Pigment PLA Recycled Brown	Prusa3D	CF	Complete	6/6	53/100	30/100	11/100	89/100	84/100	49/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$32.80
MAT0204	Prusa3D Prusament Jet Black PLA Black	Prusa3D		Complete	6/6	53/100	40/100	18/100	100/100	77/100	30/100	29/100	58 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$25.60
MAT0182	Sunlu Standard Blue PLA High Speed Blue	Sunlu		Complete	6/6	53/100	34/100	21/100	100/100	86/100	23/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$18.28
MAT0155	Thorwell Standard PLA White	Thorwell	CF	Complete	6/6	53/100	36/100	19/100	99/100	82/100	31/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$30.00

Material ID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0160	Winkle Standard Canary Yellow PLA High Speed Yellow	Winkle		Complete	6/6	53/100	36/100	17/100	100/100	79/100	33/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$39.96
MAT0157	Winkle Standard Recycled PLA Recycled Gray	Winkle		Complete	6/6	53/100	35/100	20/100	99/100	79/100	32/100	25/100	50 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$58.50
MAT0162	Winkle Standard Winkle Purple PLA HD Purple	Winkle		Complete	6/6	53/100	34/100	18/100	100/100	77/100	33/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$39.96
MAT0107	BambuLab Basic PLA Black	BambuLab		Complete	6/6	52/100	26/100	21/100	95/100	79/100	39/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$43.92
MAT0070	BambuLab Matte PLA Matte Black	BambuLab		Complete	6/6	52/100	19/100	38/100	100/100	81/100	23/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$43.92
MAT0176	BambuLab Standard Alpine Green Sparkle PLA Sparkle Green	BambuLab		Complete	6/6	52/100	30/100	49/100	80/100	73/100	28/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$39.92
MAT0172	BambuLab Standard Glow Blue PLA Glow Blue	BambuLab		Complete	6/6	52/100	32/100	22/100	80/100	86/100	43/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$47.92
MAT0068	ProtoPasta HTPLA Gloop! Purple PLA Purple	ProtoPasta		Complete	6/6	52/100	36/100	16/100	100/100	79/100	29/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$91.74
MAT0221	Prusa3D Buddy3D Pearl Green PLA Green	Prusa3D		Complete	6/6	52/100	36/100	20/100	100/100	84/100	18/100	28/100	56 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$26.80
MAT0117	Prusa3D Buddy3D PLA Glitter Blue	Prusa3D		Complete	6/6	52/100	31/100	24/100	100/100	81/100	23/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$26.80
MAT0177	BambuLab Standard White Marble PLA Marble White	BambuLab		Complete	6/6	51/100	27/100	44/100	71/100	78/100	36/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$47.92
MAT0104	Prima Creator EasyPrint Black PLA Black	Prima Creator		Complete	6/6	51/100	32/100	22/100	92/100	85/100	26/100	25/100	49 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$20.78
MAT0124	Prima Creator EasyPrint Light Gray PLA Gray	Prima Creator		Complete	6/6	51/100	36/100	20/100	98/100	80/100	21/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$20.78
MAT0113	Prima Creator PrimaSelect Dark Blue PLA Blue	Prima Creator		Complete	6/6	51/100	34/100	28/100	92/100	80/100	23/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$20.78

MaterialID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MATO 188	Sunlu Standard Orange PLA High Speed Orange	Sunlu		Complete	6/6	51/100	31/100	24/100	96/100	82/100	23/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$18.28
MATO 189	Sunlu Standard Pink PLA High Speed Pink	Sunlu		Complete	6/6	51/100	33/100	25/100	100/100	80/100	17/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$18.28
MATO 127	Yasin Standard Gray PLA Gray	Yasin		Complete	6/6	51/100	38/100	3/100	100/100	71/100	45/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$26.56
MATO 134	Add:North Enhanced PLA Natural	Add:North		Partial	4/6	50/100	40/100	10/100	—	90/100	61/100	—	n/a			\$32.00
MATO 174	BambuLab Standard Oxide Green Metallic PLA Metal Green	BambuLab		Complete	6/6	50/100	26/100	49/100	67/100	84/100	26/100	28/100	56 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$39.92
MATO 193	Elegoo Standard Sea Green PLA Plus Green	Elegoo		Complete	6/6	50/100	31/100	29/100	85/100	78/100	25/100	25/100	50 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$11.86
MATO 192	Elegoo Standard Sky Blue PLA Plus Blue	Elegoo		Complete	6/6	50/100	35/100	30/100	72/100	83/100	31/100	24/100	48 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$11.86
MATO 183	Sunlu Standard Green PLA High Speed Green	Sunlu		Complete	6/6	50/100	30/100	24/100	100/100	79/100	15/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$18.28
MATO 186	Sunlu Standard White PLA High Speed White	Sunlu		Complete	6/6	50/100	29/100	27/100	96/100	78/100	21/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$18.28
MATO 156	Thorwell Standard PLA Black	Thorwell		Complete	6/6	50/100	31/100	19/100	95/100	77/100	29/100	25/100	50 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$30.00
MATO 178	BambuLab Standard Iris Purple PLA CF Purple	BambuLab	CF	Complete	6/6	49/100	29/100	22/100	100/100	78/100	15/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$47.92
MATO 190	Elegoo Standard Orange PLA Plus Orange	Elegoo		Complete	6/6	49/100	31/100	27/100	83/100	84/100	21/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$11.86
MATO 191	Elegoo Standard Yellow PLA Plus Yellow	Elegoo		Complete	6/6	49/100	30/100	28/100	89/100	76/100	22/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$11.86
MATO 185	Sunlu Standard Red PLA High Speed Red	Sunlu		Complete	6/6	49/100	30/100	24/100	94/100	80/100	17/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$18.28
MATO 187	Sunlu Standard Black PLA High Speed Black	Sunlu		Complete	6/6	48/100	28/100	27/100	100/100	76/100	10/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$18.28

MaterialID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0158	Winkle Standard Smokey Gray PLA Matte Gray	Winkle		Complete	5/6	48/100	26/100	42/100	65/100	83/100	22/100	—	n/a			\$39.96
MAT0100	Prima Creator PrimaValue PLA GF Natural	Prima Creator	GF	Complete	6/6	47/100	25/100	22/100	100/100	76/100	13/100	24/100	48 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$20.78
MAT0086	Prusa3D Buddy3D PLA Silk Gold	Prusa3D		Complete	6/6	47/100	25/100	15/100	96/100	77/100	21/100	28/100	55 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$25.60
MAT0126	Prusa3D Prusament Galaxy Silver PLA Gray	Prusa3D		Complete	6/6	47/100	32/100	9/100	88/100	75/100	33/100	28/100	56 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$30.40
MAT0141	Prusa3D Prusament Vanilla White PLA White	Prusa3D		Complete	5/6	47/100	31/100	10/100	93/100	72/100	29/100	—	n/a			\$30.40
MAT0119	Thorwell Standard PLA Blue	Thorwell		Complete	5/6	47/100	32/100	15/100	86/100	77/100	28/100	—	n/a			\$30.00
MAT0142	Thorwell Standard PLA Yellow	Thorwell		Complete	6/6	47/100	35/100	16/100	83/100	75/100	25/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$30.00
MAT0073	BambuLab Matte Lillac Purple PLA Matte Purple	BambuLab		Complete	6/6	46/100	22/100	28/100	68/100	86/100	25/100	25/100	49 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$43.92
MAT0123	Prima Creator PrimaSelect PLA Pastel Cyan	Prima Creator		Complete	6/6	46/100	22/100	31/100	83/100	79/100	16/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$20.78
MAT0098	Prima Creator PrimaValue Black PLA CF Black	Prima Creator	CF	Complete	6/6	46/100	28/100	23/100	89/100	77/100	14/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$20.78
MAT0090	Prusa3D Buddy3D PLA Silk Pink	Prusa3D		Complete	6/6	46/100	26/100	14/100	92/100	74/100	21/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.60
MAT0093	Prusa3D Buddy3D PLA Silk Red	Prusa3D		Complete	6/6	46/100	21/100	14/100	92/100	71/100	33/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.60
MAT0226	Spectrum Greeney Pro Real Green PLA Green	Spectrum		Complete	6/6	46/100	18/100	31/100	96/100	74/100	10/100	28/100	56 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$75.92
MAT0184	Sunlu Standard Yellow PLA High Speed Yellow	Sunlu		Complete	6/6	46/100	28/100	24/100	100/100	69/100	11/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$18.28
MAT0089	Winkle Silk PLA Silk Green	Winkle		Complete	6/6	46/100	26/100	11/100	91/100	79/100	22/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$27.96

Material ID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0075	BambuLab Matte Ivory White PLA Matte White	BambuLab		Complete	6/6	45/100	20/100	30/100	59/100	83/100	34/100	25/100	49 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$43.92
MAT0243	Landu Standard Black PLA Plus Black	Landu		Complete	6/6	45/100	25/100	19/100	77/100	82/100	18/100	22/100	44 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$26.32
MAT0223	Prusa3D Buddy3D PLA Silk Blue	Prusa3D		Complete	6/6	45/100	24/100	19/100	95/100	73/100	15/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.60
MAT0085	Prusa3D Buddy3D PLA Silk Copper	Prusa3D		Complete	6/6	45/100	18/100	17/100	92/100	75/100	24/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$23.20
MAT0081	Prusa3D Prusament Viva La Bronze PLA Silk Bronze	Prusa3D		Complete	6/6	45/100	35/100	15/100	64/100	86/100	24/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$30.40
MAT0095	Polymaker PolyTerra PLA Black	Polymaker		Complete	5/6	44/100	17/100	22/100	62/100	87/100	34/100	—	n/a			\$16.51
MAT0128	Prima Creator PrimaSelect Glow in the Dark PLA Glow Green	Prima Creator		Complete	6/6	44/100	27/100	24/100	72/100	78/100	18/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.65
MAT0072	Prima Creator PrimaSelect Warm Gray PLA Matte Gray	Prima Creator		Complete	6/6	44/100	18/100	30/100	82/100	78/100	10/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$20.78
MAT0082	Prusa3D Buddy3D PLA Silk Black	Prusa3D		Complete	6/6	44/100	27/100	17/100	92/100	73/100	14/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.60
MAT0234	Yasin Standard Black PLA CF Black	Yasin	CF	Complete	6/6	44/100	26/100	24/100	86/100	74/100	10/100	24/100	47 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$32.56
MAT0071	BambuLab Matte Latte Brown PLA Matte Brown	BambuLab		Complete	6/6	43/100	22/100	27/100	66/100	84/100	17/100	25/100	50 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$43.92
MAT0083	Prusa3D Buddy3D Ice Blue PLA Silk Blue	Prusa3D		Complete	6/6	43/100	22/100	19/100	88/100	69/100	16/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$21.60
MAT0087	Prusa3D Prusament Oh My Gold PLA Silk Gold	Prusa3D		Complete	6/6	43/100	34/100	15/100	72/100	79/100	17/100	27/100	54 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$30.40
MAT0091	Yasin Standard Silk PLA Silk Pink	Yasin		Complete	6/6	43/100	32/100	6/100	93/100	71/100	11/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$26.56
MAT0175	BambuLab Standard Black Walnut PLA Wood Brown	BambuLab	Wood	Complete	6/6	42/100	22/100	18/100	84/100	73/100	11/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$43.92

Material ID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0115	Extruder BioFusion Blue Fire PLA Blue	Extruder		Complete	6/6	42/100	21/100	25/100	84/100	77/100	4/100	28/100	55 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$19.80
MAT0064	Polymaker HTPLA PLA Black	Polymaker		Complete	6/6	42/100	20/100	17/100	82/100	76/100	15/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$22.52
MAT0114	Prima Creator PrimaSelect Abyss Blue PLA Satin Blue	Prima Creator		Complete	6/6	42/100	26/100	29/100	69/100	78/100	10/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$20.78
MAT0153	Thorwell Standard Wood PLA Wood Brown	Thorwell	Wood	Complete	6/6	42/100	15/100	21/100	83/100	79/100	12/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$45.20
MAT0163	Winkle Standard Maple Wood PLA HD Wood White	Winkle	Wood	Complete	6/6	42/100	17/100	23/100	86/100	74/100	9/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$85.27
MAT0094	Yasin Standard Soft PLA PLA Soft White	Yasin		Partial	4/6	42/100	8/100	46/100	—	77/100	37/100	—	n/a			\$29.44
MAT0233	Yasin Standard White PLA matt White	Yasin		Complete	6/6	42/100	15/100	25/100	85/100	72/100	13/100	24/100	48 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$25.44
MAT0097	Polymaker PolyTerra PLA Plus Green	Polymaker		Complete	5/6	41/100	20/100	15/100	68/100	79/100	22/100	—	n/a			\$21.73
MAT0145	Yasin Standard Wood PLA Wood Wood Brown	Yasin	Wood	Complete	6/6	41/100	19/100	20/100	77/100	77/100	13/100	24/100	47 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$29.68
MAT0173	BambuLab Standard Purple PLA Silk+ Purple	Bambu Lab		Complete	6/6	39/100	27/100	14/100	68/100	77/100	11/100	25/100	49 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$47.92
MAT0222	Prusa3D Buddy3D Dark Gold PLA Silk Gold	Prusa3D		Complete	6/6	39/100	21/100	12/100	93/100	55/100	15/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$25.60
MAT0102	Prima Creator PrimaValue PLA Lightweight Black	Prima Creator		Complete	6/6	38/100	15/100	20/100	52/100	69/100	35/100	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$27.74
MAT0219	Eryone Standard Radiant Gold PLA Silk Yellow	Eryone		Complete	6/6	37/100	20/100	15/100	68/100	72/100	9/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$16.50
MAT0144	Prusa3D Prusament Linden Light PLA Wood Wood Brown	Prusa3D	Wood	Complete	6/6	37/100	15/100	17/100	57/100	79/100	17/100	27/100	53 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$36.80
MAT0224	Spectrum The Filament Vivid Red PLA Hight Temp Red	Spectrum		Complete	6/6	37/100	16/100	15/100	69/100	73/100	12/100	24/100	48 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$33.52

MaterialID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0120	Winkle Standard PLA HD Blue	Winkle		Partial	3/6	35/100	—	7/100	—	64/100	—	26/100	52 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$44.67
MAT0147	Thorwell Standard Silk PLA Silk Blue	Thorwell		Complete	6/6	31/100	12/100	14/100	43/100	66/100	21/100	26/100	51 °C	3dp-thermal-deflection-fixture-v1	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPIceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a manufacturer limit.	\$32.00
MAT0092	Polyalchemy Elixir Fire PLA Silk Red	Polyalchemy		Complete	5/6	29/100	18/100	10/100	56/100	49/100	10/100	—	n/a			\$25.00

Results are comparative 3DPIceland measurements and do not replace manufacturer datasheets or accredited laboratory testing.

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