

ASA Material Family Comparison



3DP Iceland Labs
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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 ASA. Every included MaterialID has explicit Public reports opt-in.

Materials compared
17

Overall score available
17

All 6 axes available
17

Engineering-axis leaders in this comparison

Axis	Leading material	Score
Overall	Extrudr DuraPro Emerald Green ASA Green	51
Tensile	Eryone Standard White ASA White	23
Impact	Thorwell Standard ASA ASA Yellow	56
Stiffness	Eryone Standard White ASA GF White	82
Consistency	Extrudr DuraPro Emerald Green ASA Green	84

Axis	Leading material	Score
Layer adhesion	Eryone Standard White ASA GF White	39
Thermal	Eryone Standard Black ASA CF Black	46

Overall comparison

Extrudr DuraPro Emerald Gree...		51/100
Eryone Standard Black ASA Hi...		48/100
Extrudr DuraPro ASA Red		48/100
Prusa3D Prusament ASA Pro G...		48/100
Eryone Standard White ASA W...		46/100
Thorwell Standard ASA ASA Ye...		46/100
Yasin Standard White ASA White		46/100
BambuLab Standard Blue ASA ...		45/100
Prusa3D Prusament Galaxy Bla...		45/100
Eryone Standard White ASA G...		44/100

Tensile comparison

Eryone Standard White ASA W...		23/100
Prusa3D Prusament ASA Pro G...		23/100
BambuLab Standard Blue ASA ...		22/100
Thorwell Standard ASA ASA Ye...		22/100
Extrudr DuraPro Emerald Gree...		21/100
Siraya Tech Fiberheart Black A...		21/100
Yasin Standard Black ASA GF B...		21/100
Yasin Standard White ASA White		21/100
Yasin Standard Black ASA CF Bl...		20/100
Eryone Standard Black ASA Hi...		19/100

Impact comparison

Thorwell Standard ASA ASA Ye...		56/100
Eryone Standard White ASA W...		51/100
Yasin Standard White ASA White		51/100
Eryone Standard Black ASA Hi...		50/100
Extrudr DuraPro ASA Red		50/100
Extrudr DuraPro Emerald Gree...		49/100
BambuLab Standard Blue ASA ...		45/100
Prusa3D Prusament ASA Pro G...		44/100
Prusa3D Prusament Galaxy Bla...		42/100
Prima Creator PrimaSelect AS...		35/100

Stiffness comparison

Eryone Standard White ASA G...		82/100
Siraya Tech Fiberheart Black A...		76/100
Eryone Standard Black ASA CF ...		74/100
BambuLab Standard Blue ASA ...		73/100
Extrudr DuraPro Neon Green ...		73/100
Eryone Standard White ASA W...		71/100
Prusa3D Prusament ASA Pro G...		71/100
Extrudr DuraPro ASA Red		68/100
Thorwell Standard ASA ASA Ye...		68/100
Extrudr DuraPro Emerald Gree...		67/100

Thermal comparison



Materials and evidence context

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0014	Extrudr DuraPro Emerald Green ASA Green	Extrudr	DuraPro	ASA		Complete	6/6
MAT0211	Eryone Standard Black ASA High Speed Black	Eryone	Standard	ASA		Complete	6/6
MAT0016	Extrudr DuraPro ASA Red	Extrudr	DuraPro	ASA		Complete	6/6
MAT0015	Prusa3D Prusament ASA Pro Green	Prusa3D	Prusament	ASA		Complete	6/6
MAT0216	Eryone Standard White ASA White	Eryone	Standard	ASA		Complete	6/6
MAT0148	Thorwell Standard ASA ASA Yellow	Thorwell	Standard	ASA		Complete	6/6
MAT0017	Yasin Standard White ASA White	Yasin	Standard	ASA		Complete	6/6
MAT0179	BambuLab Standard Blue ASA Blue	BambuLab	Standard	ASA		Complete	6/6
MAT0012	Prusa3D Prusament Galaxy Black ASA Black	Prusa3D	Prusament	ASA		Complete	6/6
MAT0218	Eryone Standard White ASA GF White	Eryone	Standard	ASA	GF	Complete	6/6
MAT0010	Yasin Standard Black ASA GF Black	Yasin	Standard	ASA	GF	Complete	6/6

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0197	Siraya Tech Fiberheart Black ASA GF Black	Siraya Tech	Fiberheart	ASA	GF	Complete	6/6
MAT0011	Extrudr DuraPro Neon Green ASA GF Green	Extrudr	DuraPro	ASA	GF	Complete	6/6
MAT0009	Yasin Standard Black ASA CF Black	Yasin	Standard	ASA	CF	Complete	6/6
MAT0213	Eryone Standard Black ASA CF Black	Eryone	Standard	ASA	CF	Complete	6/6
MAT0013	Prima Creator PrimaSelect ASA Blue	Prima Creator	PrimaSelect	ASA		Complete	6/6
MAT0008	Extrudr DuraPro ASA CF Black	Extrudr	DuraPro	ASA	CF	Complete	6/6

Side-by-side engineering scores

Mater ialID	Material	Manufa cturer	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
MAT0014	Extrudr DuraPro Emerald Green ASA Green	Extrudr		Com plete	6/6	51/100	21/100	49/100	67/100	84/100	35/100	42/100	83 °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.	\$21.97
MAT0211	Eryone Standard Black ASA High Speed Black	Eryone		Com plete	6/6	48/100	19/100	50/100	66/100	83/100	23/100	41/100	82 °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.	\$17.50
MAT0016	Extrudr DuraPro ASA Red	Extrudr		Com plete	6/6	48/100	19/100	50/100	68/100	80/100	21/100	42/100	83 °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.	\$21.97
MAT0015	Prusa3D Prusament ASA Pro Green	Prusa3D		Com plete	6/6	48/100	23/100	44/100	71/100	81/100	24/100	45/100	90 °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.	\$26.40
MAT0216	Eryone Standard White ASA White	Eryone		Com plete	6/6	46/100	23/100	51/100	71/100	77/100	8/100	45/100	89 °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.	\$15.00
MAT0148	Thorwell Standard ASA ASA Yellow	Thorwell		Com plete	6/6	46/100	22/100	56/100	68/100	76/100	10/100	45/100	89 °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.	\$33.60
MAT0017	Yasin Standard White ASA White	Yasin		Com plete	6/6	46/100	21/100	51/100	52/100	84/100	22/100	43/100	86 °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.	\$27.52
MAT0179	BambuLab Standard Blue ASA Blue	BambuLab		Com plete	6/6	45/100	22/100	45/100	73/100	72/100	11/100	45/100	89 °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
MAT0012	Prusa3D Prusament Galaxy Black ASA Black	Prusa3D		Com plete	6/6	45/100	18/100	42/100	60/100	82/100	21/100	39/100	77 °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.	\$34.00
MAT0218	Eryone Standard White ASA GF White	Eryone	GF	Com plete	6/6	44/100	17/100	28/100	82/100	54/100	39/100	37/100	74 °C	3dp-thermal-deflection-	Nearby BlueDOT probe-indicated fixture temperature from a non-standard comparative 3DPiceland method; not ASTM D648, ISO 75, specimen temperature, certified HDT or a	\$16.50

Material ID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
														fixture-v1	manufacturer limit.	
MAT0010	Yasin Standard Black ASA GF Black	Yasin	GF	Complete	6/6	44/100	21/100	32/100	65/100	79/100	23/100	42/100	83 °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.	\$28.80
MAT0197	Siraya Tech Fiberheart Black ASA GF Black	Siraya Tech	GF	Complete	6/6	43/100	21/100	27/100	76/100	77/100	17/100	46/100	91 °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.	\$34.39
MAT0011	Extrudr DuraPro Neon Green ASA GF Green	Extrudr	GF	Complete	6/6	41/100	15/100	20/100	73/100	76/100	22/100	43/100	85 °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.	\$42.27
MAT0009	Yasin Standard Black ASA CF Black	Yasin	CF	Complete	6/6	41/100	20/100	19/100	63/100	77/100	25/100	42/100	83 °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.	\$33.44
MAT0213	Eryone Standard Black ASA CF Black	Eryone	CF	Complete	6/6	40/100	13/100	19/100	74/100	78/100	16/100	46/100	91 °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.	\$17.50
MAT0013	Prima Creator PrimaSelect ASA Blue	Prima Creator		Complete	6/6	39/100	19/100	35/100	60/100	67/100	13/100	42/100	84 °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
MAT0008	Extrudr DuraPro ASA CF Black	Extrudr	CF	Complete	6/6	36/100	15/100	14/100	65/100	69/100	16/100	42/100	84 °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.	\$21.97

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

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