

ABS Material Family Comparison



3DPiceland Labs
Generated with 3DPiceland Engineering Platform v60.0.6 WORKFLOW-RELIABILITY - Bug Fixes and Workflow Reliability
2026-08-25 19:04:12

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 ABS. Every included MaterialID has explicit Public reports opt-in.

Materials compared
18

Overall score available
16

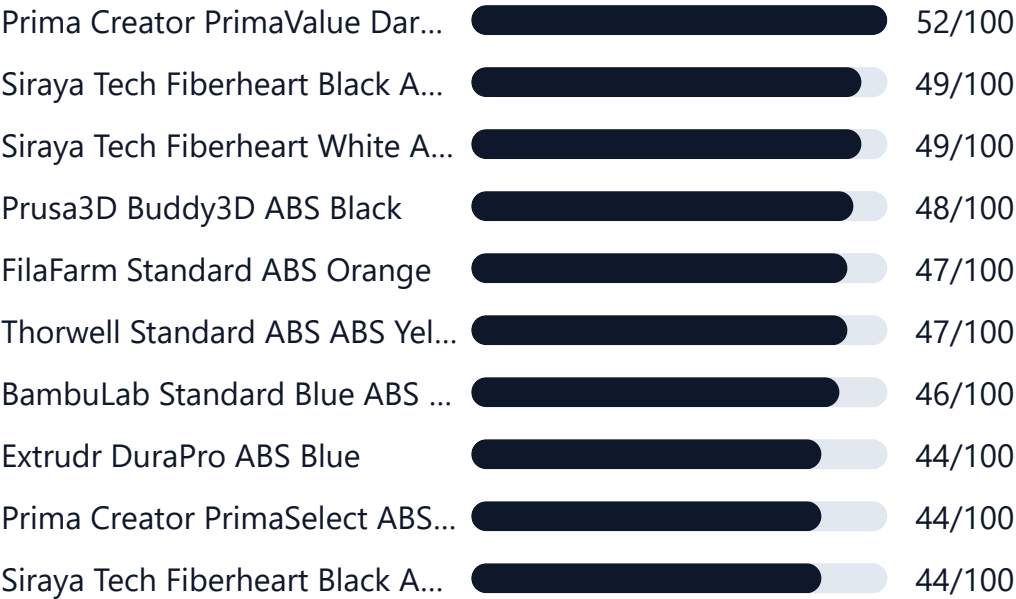
All 6 axes available
15

Engineering-axis leaders in this comparison

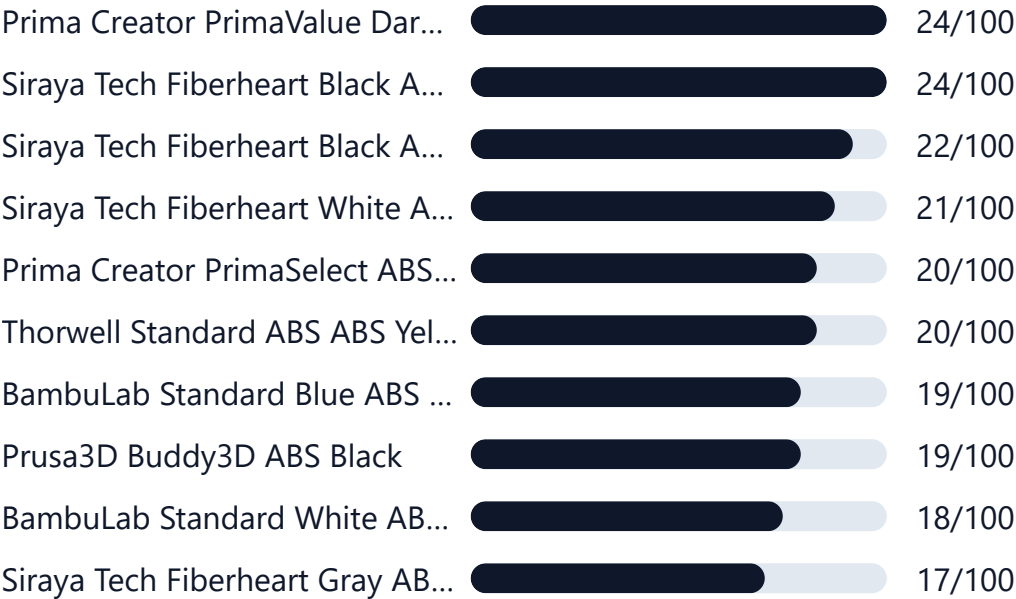
Axis	Leading material	Score
Overall	Prima Creator PrimaValue Dark Gray ABS Gray	52
Tensile	Prima Creator PrimaValue Dark Gray ABS Gray	24
Impact	Spectrum Premium Forest Green ABS Green	58
Stiffness	Siraya Tech Fiberheart Black ABS Core CF Black	100
Consistency	Siraya Tech Fiberheart White ABS High Temp White	86

Axis	Leading material	Score
Layer adhesion	Prusa3D Buddy3D ABS Black	29
Thermal	Siraya Tech Fiberheart White ABS High Temp White	45

Overall comparison



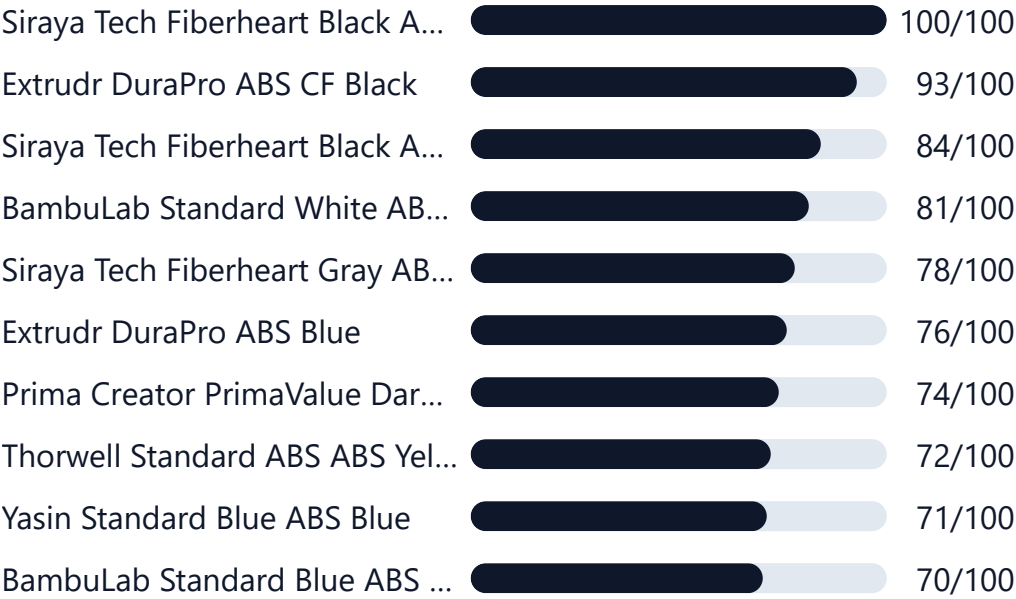
Tensile comparison



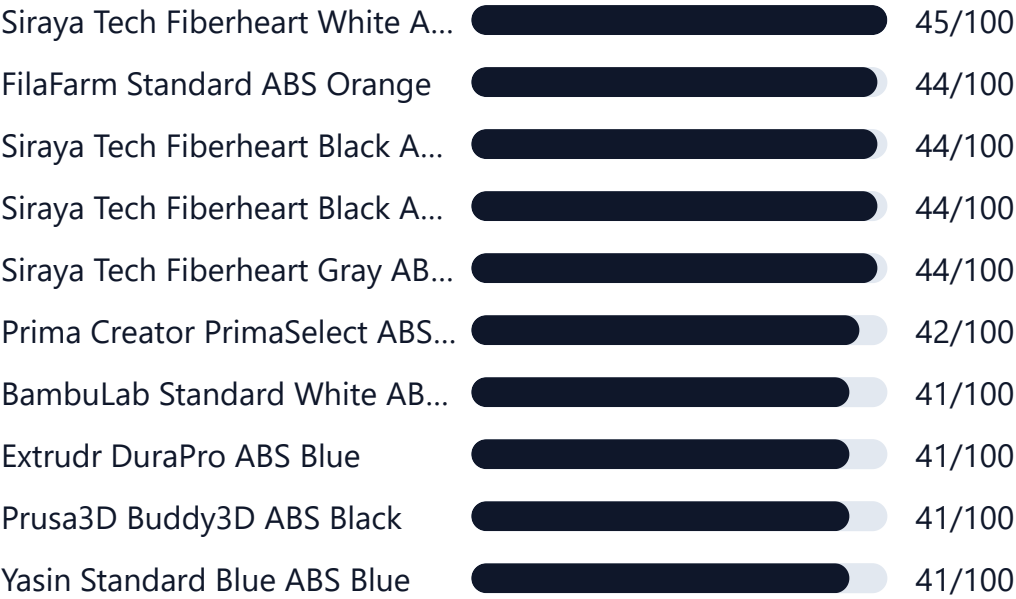
Impact comparison



Stiffness comparison



Thermal comparison



Materials and evidence context

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0006	Prima Creator PrimaValue Dark Gray ABS Gray	Prima Creator	PrimaValue	ABS		Complete	6/6
MAT0207	Siraya Tech Fiberheart Black ABS Core CF Black	Siraya Tech	Fiberheart	ABS	CF	Complete	6/6
MAT0202	Siraya Tech Fiberheart White ABS High Temp White	Siraya Tech	Fiberheart	ABS		Complete	6/6
MAT0003	Prusa3D Buddy3D ABS Black	Prusa3D	Buddy3D	ABS		Complete	6/6
MAT0007	FilaFarm Standard ABS Orange	FilaFarm	Standard	ABS		Partial	3/6
MAT0152	Thorwell Standard ABS ABS Yellow	Thorwell	Standard	ABS		Complete	6/6
MAT0181	BambuLab Standard Blue ABS Blue	BambuLab	Standard	ABS		Complete	6/6
MAT0005	Extrudr DuraPro ABS Blue	Extrudr	DuraPro	ABS		Complete	6/6
MAT0004	Prima Creator PrimaSelect ABS Blue	Prima Creator	PrimaSelect	ABS		Complete	6/6
MAT0199	Siraya Tech Fiberheart Black ABS CF Black	Siraya Tech	Fiberheart	ABS	CF	Complete	6/6
MAT0241	Yasin Standard Blue ABS Blue	Yasin	Standard	ABS		Complete	6/6

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0180	BambuLab Standard White ABS GF White	BambuLab	Standard	ABS	GF	Complete	6/6
MAT0201	Siraya Tech Fiberheart Gray ABS GF Gray	Siraya Tech	Fiberheart	ABS	GF	Complete	6/6
MAT0001	Prima Creator PrimaSelect ABS Matte Black	Prima Creator	PrimaSelect	ABS		Complete	6/6
MAT0002	Extrudr DuraPro ABS CF Black	Extrudr	DuraPro	ABS	CF	Complete	6/6
MAT0228	Spectrum Premium Forest Green ABS Green	Spectrum	Premium	ABS		Complete	6/6
MAT0208	Eryone Standard White ABS White	Eryone	Standard	ABS		No native results	0/6
MAT0217	Eryone Standard White ABS White	Eryone	Standard	ABS		No native results	0/6

Side-by-side engineering scores

Mater ialID	Material	Manuf acturer	Reinfor cement	Coverag e	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
MAT006	Prima Creator PrimaValue Dark Gray ABS Gray	Prima Creator		Comple te	6/6	52/100	24/100	54/100	74/100	82/100	24/100	40/100	80 °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.	\$15.57
MAT0207	Siraya Tech Fiberheart Black ABS Core CF Black	Siraya Tech	CF	Comple te	6/6	49/100	24/100	27/100	100/100	81/100	13/100	44/100	87 °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.	\$35.99
MAT0202	Siraya Tech Fiberheart White ABS High Temp White	Siraya Tech		Comple te	6/6	49/100	21/100	54/100	68/100	86/100	17/100	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.	\$19.49
MAT0003	Prusa3D Buddy3D ABS Black	Prusa3D		Comple te	6/6	48/100	19/100	53/100	57/100	79/100	29/100	41/100	81 °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
MAT0007	FilaFarm Standard ABS Orange	FilaFarm		Partial	3/6	47/100	—	41/100	—	53/100	—	44/100	88 °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.	\$26.67
MAT0152	Thorwell Standard ABS ABS Yellow	Thorwell		Comple te	6/6	47/100	20/100	53/100	72/100	76/100	12/100	40/100	80 °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.	\$36.00
MAT0181	BambuLab Standard Blue ABS Blue	BambuLab		Comple te	6/6	46/100	19/100	53/100	70/100	73/100	14/100	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.	\$35.92
MAT0005	Extrudr DuraPro ABS Blue	Extrudr		Comple te	6/6	44/100	16/100	47/100	76/100	71/100	12/100	41/100	81 °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.	\$21.12
MAT0004	Prima Creator PrimaSelect ABS Blue	Prima Creator		Comple te	6/6	44/100	20/100	52/100	68/100	74/100	7/100	39/100	78 °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.	\$17.30

MaterialID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0199	Siraya Tech Fiberheart Black ABS CF Black	Siraya Tech	CF	Complete	6/6	44/100	22/100	24/100	84/100	80/100	10/100	44/100	88 °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.	\$32.39
MAT0241	Yasin Standard Blue ABS Blue	Yasin		Complete	6/6	44/100	17/100	47/100	71/100	71/100	15/100	41/100	81 °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
MAT0180	BambuLab Standard White ABS GF White	Bambu Lab	GF	Complete	6/6	42/100	18/100	25/100	81/100	74/100	12/100	41/100	81 °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
MAT0201	Siraya Tech Fiberheart Gray ABS GF Gray	Siraya Tech	GF	Complete	6/6	42/100	17/100	29/100	78/100	72/100	16/100	44/100	87 °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.	\$25.07
MAT0001	Prima Creator PrimaSelect ABS Matte Black	Prima Creator		Complete	6/6	41/100	15/100	48/100	57/100	72/100	11/100	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.	\$19.04
MAT0002	Extrudr DuraPro ABS CF Black	Extrudr	CF	Complete	6/6	39/100	5/100	13/100	93/100	80/100	2/100	38/100	75 °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
MAT0228	Spectrum Premium Forest Green ABS Green	Spectrum		Complete	6/6	37/100	15/100	58/100	31/100	68/100	10/100	32/100	64 °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
MAT0208	Eryone Standard White ABS White	Eryone		No native results	0/6	—	—	—	—	—	—	—	n/a			\$15.00
MAT0217	Eryone Standard White ABS White	Eryone		No native results	0/6	—	—	—	—	—	—	—	n/a			\$16.50

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

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Stable public path: reports/comparisons/material-family-abs/