

PC Material Family Comparison



3DPiceland Labs
Generated with 3DPiceland 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 PC. Every included MaterialID has explicit Public reports opt-in.

Materials compared
6

Overall score available
6

All 6 axes available
6

Engineering-axis leaders in this comparison

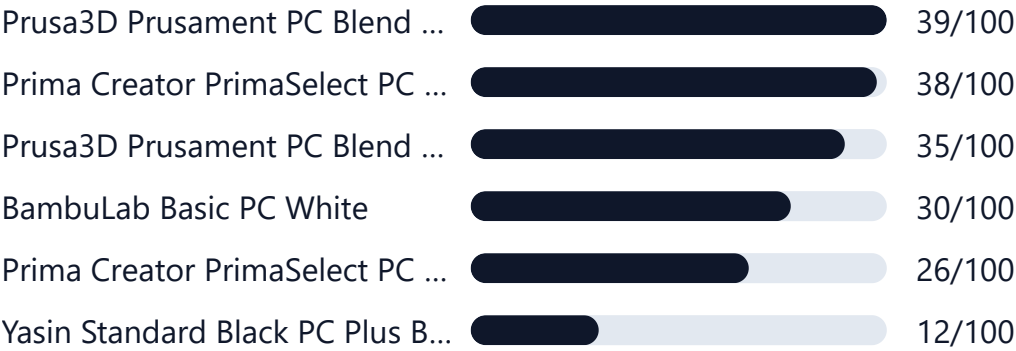
Axis	Leading material	Score
Overall	Prusa3D Prusament PC Blend PC Black	56
Tensile	Prusa3D Prusament PC Blend PC Black	39
Impact	Prusa3D Prusament PC Blend PC Black	46
Stiffness	Prusa3D Prusament PC Blend PC CF Black	100
Consistency	Prusa3D Prusament PC Blend PC Black	87

Axis	Leading material	Score
Layer adhesion	Prusa3D Prusament PC Blend PC Black	40
Thermal	BambuLab Basic PC White	48

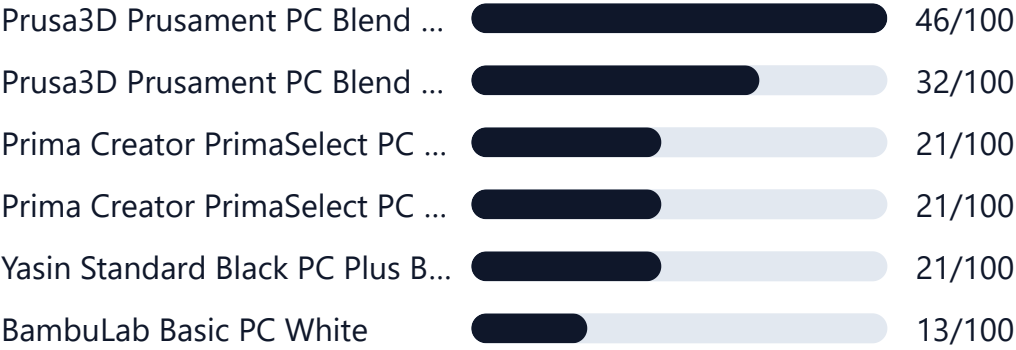
Overall comparison



Tensile comparison



Impact comparison



Stiffness comparison



Thermal comparison



Materials and evidence context

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0033	Prusa3D Prusament PC Blend PC Black	Prusa3D	Prusament	PC		Complete	6/6
MAT0029	Prusa3D Prusament PC Blend PC CF Black	Prusa3D	Prusament	PC	CF	Complete	6/6
MAT0032	Prima Creator PrimaSelect PC Black	Prima Creator	PrimaSelect	PC		Complete	6/6
MAT0028	Prima Creator PrimaSelect PC CF Black	Prima Creator	PrimaSelect	PC	CF	Complete	6/6
MAT0168	BambuLab Basic PC White	BambuLab	Basic	PC		Complete	6/6
MAT0034	Yasin Standard Black PC Plus Black	Yasin	Standard	PC		Complete	6/6

Side-by-side engineering scores

MaterialID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0033	Prusa3D Prusament PC Blend PC Black	Prusa3D		Complete	6/6	56/100	39/100	46/100	68/100	87/100	40/100	47/100	93 °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.	\$49.78
MAT0029	Prusa3D Prusament PC Blend PC CF Black	Prusa3D	CF	Complete	6/6	55/100	35/100	32/100	100/100	85/100	22/100	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.	\$77.50
MAT0032	Prima Creator PrimaSelect PC Black	Prima Creator		Complete	6/6	46/100	26/100	21/100	88/100	75/100	19/100	44/100	88 °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	\$30.35

MaterialID	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.	
MAT0028	Prima Creator PrimaSelect PC CF Black	Prima Creator	CF	Complete	6/6	45/100	38/100	21/100	89/100	66/100	9/100	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.	\$69.48
MAT0168	BambuLab Basic PC White	BambuLab		Complete	6/6	42/100	30/100	13/100	86/100	70/100	13/100	48/100	95 °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.	\$55.92
MAT0034	Yasin Standard Black PC Plus Black	Yasin		Complete	6/6	35/100	12/100	21/100	59/100	70/100	14/100	37/100	73 °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.	\$31.52

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

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