

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

Materials compared
3

Overall score available
3

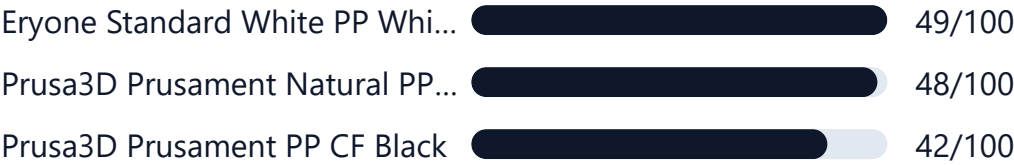
All 6 axes available
2

Engineering-axis leaders in this comparison

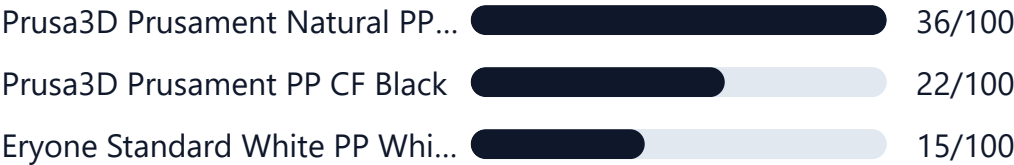
Axis	Leading material	Score
Overall	Eryone Standard White PP White	49
Tensile	Prusa3D Prusament Natural PP GF White	36
Impact	Eryone Standard White PP White	41
Stiffness	Prusa3D Prusament Natural PP GF White	72
Consistency	Prusa3D Prusament PP CF Black	87

Axis	Leading material	Score
Layer adhesion	Eryone Standard White PP White	55
Thermal	Prusa3D Prusament Natural PP GF White	49

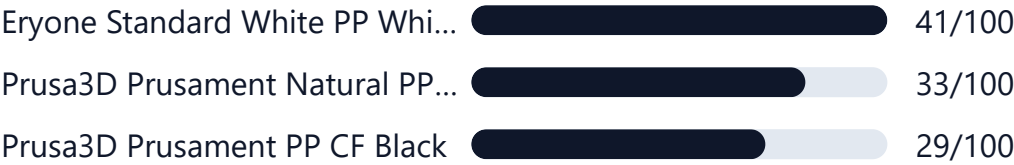
Overall comparison



Tensile comparison



Impact comparison



Stiffness comparison



Thermal comparison



Materials and evidence context

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0194	Eryone Standard White PP White	Eryone	Standard	PP		Partial	5/6
MAT0037	Prusa3D Prusament Natural PP GF White	Prusa3D	Prusament	PP	GF	Complete	6/6

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0036	Prusa3D Prusament PP CF Black	Prusa3D	Prusament	PP	CF	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
MAT0194	Eryone Standard White PP White	Eryone		Partial	5/6	49/100	15/100	41/100	—	86/100	55/100	32/100	63 °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.	\$30.43
MAT0037	Prusa3D Prusament Natural PP GF White	Prusa3D	GF	Complete	6/6	48/100	36/100	33/100	72/100	82/100	16/100	49/100	98 °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.	\$82.82
MAT0036	Prusa3D Prusament PP CF Black	Prusa3D	CF	Complete	6/6	42/100	22/100	29/100	46/100	87/100	28/100	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.	\$109.54

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

[Testing methodology](#) · [Engineering methodology whitepaper](#) · [Download PDF](#)

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