

PA6 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 PA6. Every included MaterialID has explicit Public reports opt-in.

Materials compared
7

Overall score available
7

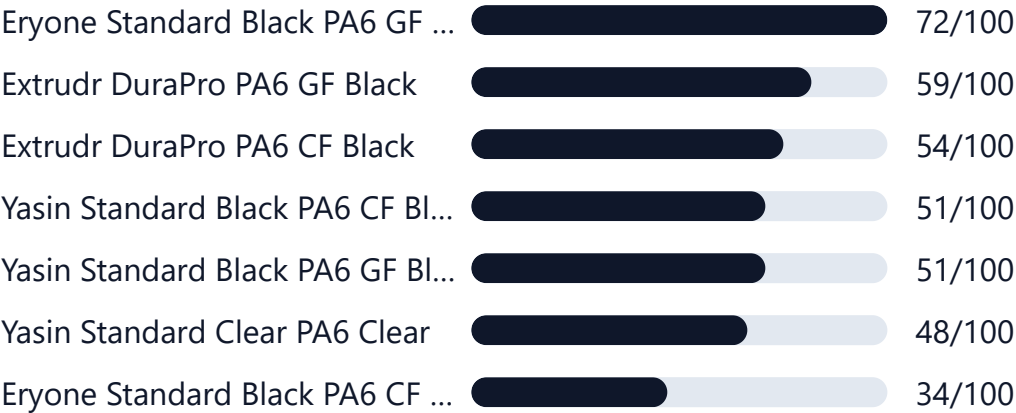
All 6 axes available
5

Engineering-axis leaders in this comparison

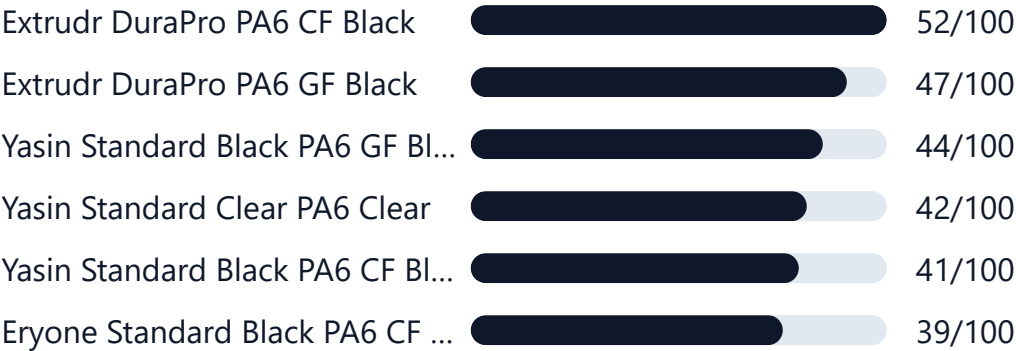
Axis	Leading material	Score
Overall	Eryone Standard Black PA6 GF Black	72
Tensile	Extrudr DuraPro PA6 CF Black	52
Impact	Extrudr DuraPro PA6 GF Black	48
Stiffness	Eryone Standard Black PA6 GF Black	100
Consistency	Yasin Standard Black PA6 CF Black	78

Axis	Leading material	Score
Layer adhesion	Extrudr DuraPro PA6 CF Black	46
Thermal	Eryone Standard Black PA6 GF Black	86

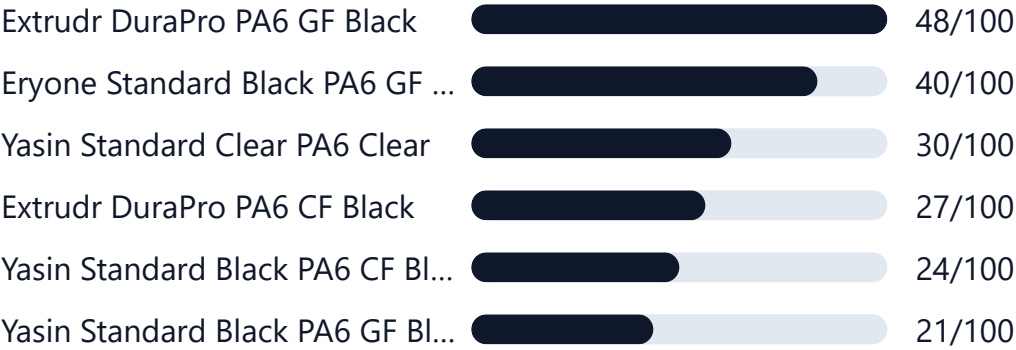
Overall comparison



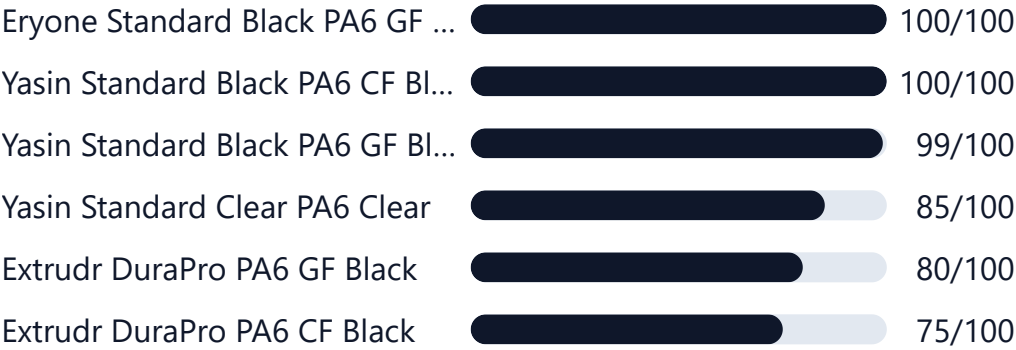
Tensile comparison



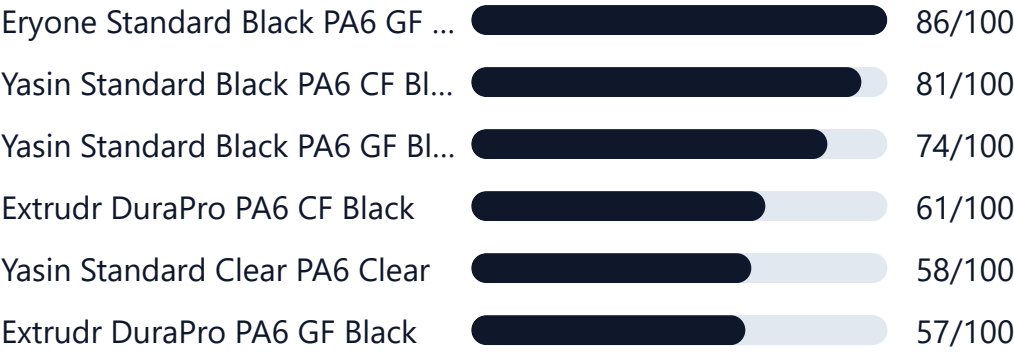
Impact comparison



Stiffness comparison



Thermal comparison



Materials and evidence context

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0210	Eryone Standard Black PA6 GF Black	Eryone	Standard	PA6	GF	Partial	4/6
MAT0025	Extrudr DuraPro PA6 GF Black	Extrudr	DuraPro	PA6	GF	Complete	6/6
MAT0023	Extrudr DuraPro PA6 CF Black	Extrudr	DuraPro	PA6	CF	Complete	6/6
MAT0024	Yasin Standard Black PA6 CF Black	Yasin	Standard	PA6	CF	Complete	6/6
MAT0026	Yasin Standard Black PA6 GF Black	Yasin	Standard	PA6	GF	Complete	6/6
MAT0027	Yasin Standard Clear PA6 Clear	Yasin	Standard	PA6		Complete	6/6
MAT0212	Eryone Standard Black PA6 CF Black	Eryone	Standard	PA6	CF	Partial	3/6

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
MAT0210	Eryone Standard Black PA6 GF Black	Eryone	GF	Partial	4/6	72/100	—	40/100	100/100	77/100	—	86/100	171 °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.	\$25.00
MAT0025	Extrudr DuraPro PA6 GF Black	Extrudr	GF	Complete	6/6	59/100	47/100	48/100	80/100	77/100	44/100	57/100	113 °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.	\$39.63

Material ID	Material	Manufacturer	Reinforcement	Coverage	Evidence	Overall	Tensile	Impact	Stiffness	Consistency	Layer adhesion	Thermal	Fixture °C	Method	Thermal limitation	MSRP USD/kg
MAT0023	Extrudr DuraPro PA6 CF Black	Extrudr	CF	Complete	6/6	54/100	52/100	27/100	75/100	71/100	46/100	61/100	122 °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.	\$39.63
MAT0024	Yasin Standard Black PA6 CF Black	Yasin	CF	Complete	6/6	51/100	41/100	24/100	100/100	78/100	10/100	81/100	162 °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.	\$32.96
MAT0026	Yasin Standard Black PA6 GF Black	Yasin	GF	Complete	6/6	51/100	44/100	21/100	99/100	76/100	13/100	74/100	148 °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.	\$30.56
MAT0027	Yasin Standard Clear PA6 Clear	Yasin		Complete	6/6	48/100	42/100	30/100	85/100	77/100	8/100	58/100	115 °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.	\$30.24
MAT0212	Eryone Standard Black PA6 CF Black	Eryone	CF	Partial	3/6	34/100	39/100	—	—	55/100	8/100	—	n/a			\$39.38

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-pa6/