

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

Materials compared
3

Overall score available
3

All 6 axes available
3

Engineering-axis leaders in this comparison

Axis	Leading material	Score
Overall	Siraya Tech Fiberheart Black PET CF Black	51
Tensile	Siraya Tech Fiberheart Black PET CF Black	35
Impact	Siraya Tech Fiberheart Black PET CF Black	27
Stiffness	Siraya Tech Fiberheart Black PET CF Black	100
Consistency	Siraya Tech Fiberheart Black PET CF Black	81

Axis	Leading material	Score
Layer adhesion	BambuLab Basic PET CF Black	17
Thermal	Siraya Tech Fiberheart Black PET CF Black	38

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
MAT0195	Siraya Tech Fiberheart Black PET CF Black	Siraya Tech	Fiberheart	PET	CF	Complete	6/6
MAT0166	BambuLab Basic PET CF Black	BambuLab	Basic	PET	CF	Complete	6/6

MaterialID	Material	Manufacturer	Product line	Type	Reinforcement	Test coverage	Engineering axes
MAT0206	Siraya Tech Fiberheart Brown PET GF Brown	Siraya Tech	Fiberheart	PET	GF	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
MAT0195	Siraya Tech Fiberheart Black PET CF Black	Siraya Tech	CF	Complete	6/6	51/100	35/100	27/100	100/100	81/100	13/100	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.	\$30.36
MAT0166	BambuLab Basic PET CF Black	BambuLab	CF	Complete	6/6	46/100	25/100	21/100	99/100	66/100	17/100	33/100	66 °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.	\$126.40
MAT0206	Siraya Tech Fiberheart Brown PET GF Brown	Siraya Tech	GF	Complete	6/6	45/100	32/100	24/100	85/100	72/100	9/100	37/100	74 °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.	\$28.04

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-pet/