

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

Materials compared
2

Overall score available
2

All 6 axes available
2

Engineering-axis leaders in this comparison

Axis	Leading material	Score
Overall	Thorwell Standard HIPS HIPS Blue	40
Tensile	Thorwell Standard HIPS HIPS Blue	14
Impact	Yasin Standard White HIPS White	42
Stiffness	Yasin Standard White HIPS White	66
Consistency	Thorwell Standard HIPS HIPS Blue	74

Axis	Leading material	Score
Layer adhesion	Thorwell Standard HIPS HIPS Blue	11
Thermal	Yasin Standard White HIPS White	40

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
MAT0146	Thorwell Standard HIPS HIPS Blue	Thorwell	Standard	HIPS		Complete	6/6
MAT0240	Yasin Standard White HIPS White	Yasin	Standard	HIPS		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
MAT0146	Thorwell Standard HIPS HIPS Blue	Thorwell		Complete	6/6	40/100	14/100	37/100	63/100	74/100	11/100	38/100	76 °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.	\$32.00
MAT0240	Yasin Standard White HIPS White	Yasin		Complete	6/6	40/100	12/100	42/100	66/100	70/100	11/100	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.	\$26.88

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-hips/