

TRIREX® Compound 3DP-3000HF

Samyang Corporation - Polycarbonate

General Information

Product Description

Samyang's AM BU is developing 3D printing materials through differentiated compound technology. Samyang commercialized polycarbonate for filament that can be used for a FDM (Fused Deposition Modeling) printer. Samyang is expanding its portfolio of 3D printing materials by developing composite materials. (CLFT, GLFT)

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Uses	• Additive Manufacturing (3D Printing)

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.118 in)	1.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8530	psi	ASTM D638
Tensile Elongation (Yield)	10	%	ASTM D638
Flexural Modulus	313000	psi	ASTM D790
Flexural Strength (Yield)	12800	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.8	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	212	°F	ASTM D648

Notes

¹ Typical properties: these are not to be construed as specifications.

