

HiTerra® rPETG 2452 3DP White

Techmer Polymer Modifiers - *Polyethylene Terephthalate Glycol Comonomer*

Product Description

HiTerra® rPETG 2452 3DP is a specially formulated, white colored, and compounded thermoplastic material designed for general purpose additive manufacturing applications. This product has been optimized for maximum printability in additive manufacturing.

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Recycled Content	• Yes
Uses	• Additive Manufacturing (3D Printing)
Appearance	• White

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.50		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	13000	psi	ASTM D638
Tensile Elongation (Break)	1.5	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	20000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.5	ft·lb/in	ASTM D256
Additional Information	Nominal Value	Unit	Test Method
Recommended Print Bed	Aluminum bed with cement glue, PC sheet, glass epoxy laminate board		
Recommended Print Bed Temperature	248 to 266	°F	

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	170	°F
Drying Time	1.0 to 6.0	hr
Cylinder Zone 1 Temp.	374 to 428	°F
Cylinder Zone 2 Temp.	392 to 464	°F
Cylinder Zone 3 Temp.	428 to 482	°F
Cylinder Zone 4 Temp.	464 to 554	°F
Melt Temperature	464 to 554	°F
Die Temperature	482 to 554	°F

Extrusion Notes

If drying for longer than 6 hours, recommend reducing the temperature to 100°F in a dessiccant dryer to avoid degradation of the material.

