

InStruc® TPUGF30
Americhem - Thermoplastic Polyurethane Elastomer
General Information
Product Description

30% GLASS FIBER REINFORCED TPU

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Stiffness • High Strength	
Uses	• Connectors • Consumer Applications	• Electrical/Electronic Applications • Household Goods	• Industrial Applications • Industrial Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.47		ASTM D792
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	7200	psi	ASTM D638
Flexural Modulus	250000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	10	ft·lb/in	ASTM D256
Unnotched Izod Impact	No Break		ASTM D4812
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+17	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200	°F
Drying Time	4.0	hr
Processing (Melt) Temp	410	°F
Mold Temperature	60 to 100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

