

InStruc® TPURGF20
Americhem - Thermoplastic Polyurethane Elastomer
General Information
Product Description

20% GLASS FILLED, RIGID POLYURETHANE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% 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	1.37		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	315000	psi	ASTM D638
Tensile Strength	8000	psi	ASTM D638
Tensile Elongation (Yield)	20	%	ASTM D638
Flexural Modulus	300000	psi	ASTM D790
Flexural Strength	8000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	6.6	ft·lb/in	ASTM D256

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.030	%
Processing (Melt) Temp	410	°F
Mold Temperature	60 to 100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

