

InStruc® TPUGF10 60D
Americhem - Thermoplastic Polyurethane Elastomer
General Information
Product Description

10% GLASS FIBER REINFORCED TPU 60D HARDNESS

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 10% 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	1.27		ASTM D792
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	5900	psi	ASTM D638
Tensile Elongation (Yield)	> 40	%	ASTM D638
Flexural Modulus	60000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	15	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+18	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

