

InStruc® PCABSGF20UV

Americhem - Polycarbonate + ABS

General Information
Product Description

20% FIBERGLASS REINFORCED UV STABILIZED POLYCARBONATE/ABS ALLOY

General

Material Status	• Commercial: Active
Availability	<ul style="list-style-type: none"> • Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• UV Stabilizer
Features	<ul style="list-style-type: none"> • Filled • Good Dimensional Stability • High Stiffness • High Strength • UV Stabilized
Uses	<ul style="list-style-type: none"> • Automotive Applications • Closures • Connectors • Consumer Applications • Electrical/Electronic Applications • Engineering Parts • Household Goods • Housings • Industrial Applications • Industrial Parts • Office Automation Equipment • Outdoor Applications
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.29		ASTM D792
Molding Shrinkage - Flow (0.125 in)	1.0E-3 to 3.0E-3	in/in	
Mechanical			
Tensile Strength (Break)	15200	psi	ASTM D638
Tensile Elongation (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	800000	psi	ASTM D790
Impact			
Notched Izod Impact	2.0	ft·lb/in	ASTM D256
Unnotched Izod Impact	10 to 12	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	295	°F	ASTM D648
Electrical			
Volume Resistivity	> 1.0E+17	ohms·cm	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	200	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	475 to 510	°F
Mold Temperature	125 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	1.0E-3 to 2.0E-3	in

