

AuroraGuard™ 130GF

Aurora Material Solutions, LLC - *Polybutylene Terephthalate*

General Information

Product Description

30% Glass Fiber Reinforced PBT

Formerly known as EnCounter 130GF or PBT30GF

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Uses	• Automotive Applications • Electrical/Electronic Applications • Business Equipment • Structural Parts
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.53		ASTM D792
Molding Shrinkage - Flow (0.126 in)	3.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical			
Tensile Strength (Yield)	17000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	1.05E+6	psi	ASTM D790
Flexural Strength	27000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	1.2	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	415	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	400	°F	ASTM D648

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 500	°F
Front Temperature	480 to 510	°F
Nozzle Temperature	470 to 500	°F
Processing (Melt) Temp	480 to 510	°F
Mold Temperature	150 to 190	°F
Injection Notes		
Maximum Drying Time	8	hrs

