

AuroraGuard™ 115PF

Aurora Material Solutions, LLC - *Polybutylene Terephthalate*

General Information

Product Description

15% PTFE Modified PBT

Formerly known as EnCounter 115PF

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• PTFE, 15% 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	1.42		ASTM D792
Melt Mass-Flow Rate (MFR)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.126 in)	0.020 to 0.030	in/in	ASTM D955
Mechanical			
Tensile Strength (Yield)	6530	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	315000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	0.51	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	320	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	129	°F	ASTM D648
Additional Information			
Filler Content	15	%	

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	240	°F
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	420 to 445	°F
Middle Temperature	475 to 495	°F
Front Temperature	495 to 520	°F
Nozzle Temperature	480 to 520	°F
Processing (Melt) Temp	450 to 500	°F
Mold Temperature	175 to 212	°F

Injection Notes

Maximum Drying Time 8 hrs

