

AuroraGuard™ 245GF

Aurora Material Solutions, LLC - Polyethylene Terephthalate

General Information

Product Description

45% Glass Reinforced PET

Formerly known as EnCounter 245GF

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight		
Uses	• Automotive Applications	• Electrical/Electronic Applications	• Industrial Applications
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.70		ASTM D792
Molding Shrinkage - Flow (0.126 in)	3.0E-3 to 9.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	2.25E+6	psi	ASTM D638
Tensile Strength (Yield)	25400	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	2.03E+6	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	1.6	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	446	°F	ASTM D648
Flammability			
Flame Rating			UL 94
0.03 in		HB	
0.06 in		HB	

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	500 to 520	°F
Middle Temperature	520 to 540	°F
Front Temperature	540 to 560	°F
Nozzle Temperature	520 to 560	°F
Processing (Melt) Temp	520 to 560	°F
Mold Temperature	205 to 250	°F
Back Pressure	50.0 to 100	psi

