

AuroraGuard™ 235GF

Aurora Material Solutions, LLC - Polyethylene Terephthalate

General Information

Product Description

35% Glass Miners Reinforced PET

Formerly known as EnCounter 235GF

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber/Mineral, 35% Filler by Weight
Uses	• Automotive Applications • Electrical/Electronic Applications • Industrial Applications
Appearance	• Black
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.58		ASTM D792
Molding Shrinkage - Flow (0.126 in)	6.0E-3 to 8.0E-3	in/in	Internal Method
Mechanical			
Tensile Modulus	1.48E+6	psi	ISO 527-1
Tensile Stress (Yield)	24900	psi	ISO 527-2
Tensile Elongation (Break)	2.0	%	ISO 527-2
Flexural Modulus	1.24E+6	psi	ISO 178
Flexural Stress	16500	psi	ISO 178
Impact			
Notched Izod Impact Strength	51	ft·lb/in ²	ISO 180
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	396	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	365	°F	ASTM D648
Additional Information			
Filler Content	35	%	

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	230 to 250	°F
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	540 to 560	°F
Middle Temperature	540 to 560	°F
Front Temperature	540 to 560	°F
Nozzle Temperature	540 to 560	°F
Processing (Melt) Temp	535 to 575	°F
Mold Temperature	210 to 250	°F
Back Pressure	25.0 to 100	psi

