

## AuroraGuard™ 145GF

Aurora Material Solutions, LLC - *Polybutylene Terephthalate*

### General Information

#### Product Description

45% Glass Fiber Reinforced, Polybutylene Terephthalate

Formerly known as EnCounter 145GF

#### 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	
	• Business Equipment	• Structural Parts	
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.66		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20000	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	1.90E+6	psi	ASTM D790
Flexural Strength	27000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.2	ft·lb/in	ASTM D256

### Processing Information

Injection	Nominal Value	Unit
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

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

