

**AuroraGuard™ 130GFIM**

Aurora Material Solutions, LLC - *Polybutylene Terephthalate*
**General Information**
**Product Description**

30% Glass Fiber Reinforced, UV Resistant, Impact Modified, Polybutylene Terephthalate

Formerly known as EnCounter 130GFIM

**General**

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

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.53		ASTM D792
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Yield)	13100	psi	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	950000	psi	ASTM D790
Flexural Strength	21000	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (73°F)	2.5	ft·lb/in	ASTM D256
<b>Additional Information</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Filler Content	30	%	

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
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
<b>Injection Notes</b>		
Maximum Drying Time	8	hrs

