

## AuroraGuard™ F0PET15GF

Aurora Material Solutions, LLC - Polyethylene Terephthalate

### General Information

#### Product Description

15% Glass Reinforced Flame Retardant PET

Formerly known as EnCounter F0PET15GF

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant		
Uses	• Automotive Applications	• Electrical/Electronic Applications	• Industrial Applications
UL File Number	• E175765		
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.56		ASTM D792
Molding Shrinkage - Flow (0.126 in)	4.0E-3 to 8.0E-3	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Modulus	899000	psi	ASTM D638
Tensile Strength (Yield)	15700	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	937000	psi	ASTM D790
Flexural Strength	23200	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F)	1.4	ft·lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	460	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	392	°F	ASTM D648
<b>Flammability</b>			
Flame Rating (0.030 in)	V-0		UL 94
<b>Additional Information</b>			
Filler Content	15	%	

### Processing Information

	Nominal Value	Unit
<b>Injection</b>		
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

