

AuroraGuard™ 2F030GF

Aurora Material Solutions, LLC - Polyethylene Terephthalate

General Information
Product Description

30% Glass Reinforced Flame Retardant PET

Formerly known as EnCounter 2F030GF

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	• Flame Retardant		
Features	• Flame Retardant		
Uses	• Automotive Applications	• Electrical/Electronic Applications	• Industrial Applications
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.63		ASTM D792
Molding Shrinkage - Flow (0.126 in)	2.0E-3	in/in	ASTM D955
Molding Shrinkage - Across Flow	8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.69E+6	psi	ASTM D638
Tensile Strength (Yield)	18500	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	1.55E+6	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	474	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	431	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	• V-0		UL 94
	• 5VA		

Processing Information

Injection	Nominal Value	Unit
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	540	°F
Mold Temperature	200 to 240	°F
Back Pressure	50.0 to 100	psi

