

AuroraGuard™ 1F030GF

Aurora Material Solutions, LLC - Polybutylene Terephthalate

General Information

Product Description

Flame Retardant, 30% Glass Reinforced

Formerly known as EnCounter 1F030GF

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	• Business Equipment	• Profiles
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding	• Profile Extrusion	

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.64		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	17400	psi	ASTM D638
Tensile Strength (Break)	17400	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	1.35E+6	psi	ASTM D790
Flexural Strength	26000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.5	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	431	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	395	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-0		
0.10 in	5VA		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	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

