

AuroraGuard™ 1F517GF

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

17% Flame Retardant Glass Filled

Formerly known as EnCounter 1F517GF

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 17% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant
Uses	• Business Equipment • Electrical/Electronic Applications
Appearance	• Black • Colors Available • Natural Color
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.53		ASTM D792
Molding Shrinkage - Flow (0.126 in)	3.0E-3 to 5.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	13000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	700000	psi	ASTM D790
Flexural Strength	21600	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.90	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	416	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	395	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.04 in	V-0		
0.13 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

