

AuroraGuard™ 120MF

Aurora Material Solutions, LLC - *Polybutylene Terephthalate*

General Information

Product Description

20% Mineral Filled PBT

Formerly known as EnCounter 120MF

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Mineral, 20% Filler by Weight		
Uses	• Automotive Applications	• 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	1.49		ASTM D792
Molding Shrinkage - Flow (0.126 in)	8.0E-3 to 0.012	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7980	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	600000	psi	ASTM D790
Flexural Strength	13500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	0.51	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	390	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	174	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	450 to 480	°F
Middle Temperature	460 to 490	°F
Front Temperature	470 to 500	°F
Nozzle Temperature	460 to 490	°F
Processing (Melt) Temp	470 to 500	°F
Mold Temperature	120 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	50 to 100	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

Injection Notes

Maximum Drying Time 8 hrs

