

AuroraTec™ 745GF

Aurora Material Solutions, LLC - Polybutylene Terephthalate + PET

General Information

Product Description

45% Glass Reinforced PBT/PET

Formerly known as EnCounter 745GF

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight		
Features	• General Purpose		
Uses	• Appliances	• Electrical/Electronic Applications	• General Purpose
Appearance	• Black	• Colors Available	• Natural Color
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.70		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	23500	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	2.25E+6	psi	ASTM D790
Flexural Strength	38000	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)	435	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	400	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.03 in		HB	
0.06 in		HB	

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	520 to 560	°F
Mold Temperature	205 to 250	°F
Back Pressure	50.0 to 100	psi

