

AuroraGuard™ PEI-10PF-BK

Aurora Material Solutions, LLC - Polyetherimide

General Information
Product Description

Molding Grade PEI w/ 10% PTFE, UL File Number E175765

Formerly known as EnTor PEI-10PF-BK

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• PTFE Fiber, 10% Filler by Weight
Features	• Metallizable
Uses	• Automotive Applications • Electrical/Electronic Applications
UL File Number	• E175765
Appearance	• Black
Processing Method	• Injection Molding • Profile Extrusion

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.33		ASTM D792
Molding Shrinkage - Flow (0.126 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	14300	psi	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	447000	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 (264 psi, Unannealed)	390	°F	ASTM D648
CLTE - Flow	3.0E-10	in/in/°F	ASTM E228
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		V-0	
0.13 in		V-0	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	300	°F
Drying Time	4.0 to 8.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	630 to 750	°F
Middle Temperature	640 to 750	°F
Front Temperature	650 to 750	°F
Nozzle Temperature	650 to 750	°F
Processing (Melt) Temp	660 to 750	°F
Mold Temperature	275 to 325	°F

