AuroraGuard™ PEI-10PF-BK

Aurora Material Solutions, LLC - Polyetherimide

Monday, November 23, 2026

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 • Asia Pacific	• Europe • Latin America	• North 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	
Literature	• Literature Library • Locate Your Sales Representative | Aurora Material Solutions		

Properties

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density / Specific Gravity	1.33		1.33	g/cm³	ASTM D792
Molding Shrinkage - Flow (0.126 in (3.20 mm))	5.0E-3 to 7.0E-3	in/in	0.50 to 0.70	%	ASTM D955
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength (Yield)	14300	psi	98.3	MPa	ASTM D638
Tensile Elongation (Break)	20	%	20	%	ASTM D638
Flexural Modulus	447000	psi	3080	MPa	ASTM D790
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Notched Izod Impact (73°F (23°C))	1.5	ft·lb/in	80	J/m	ASTM D256
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					ASTM D648
264 psi (1.8 MPa), Unannealed	390	°F	199	°C	
CLTE - Flow	3.0E-10	in/in/°F	5.4E-10	cm/cm/°C	ASTM E228
Flammability	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Flame Rating					UL 94
0.06 in (1.6 mm)	V-0		V-0		
0.13 in (3.2 mm)	V-0		V-0		

Our staff is available to answer questions and provide technical assistance at 978.537.8261
The information presented here is, to our best knowledge, true and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise. All risks of such use are assumed by the user. Furthermore, nothing contained herein shall be construed as an inducement or recommendation to use any process or to manufacture or use any product in conflict with existing or future patents.

AuroraGuard™ PEI-10PF-BK

Aurora Material Solutions, LLC - Polyetherimide

Processing Information

Injection	Nominal Value (English)		Nominal Value (SI)	
Drying Temperature	300	°F	149	°C
Drying Time	4.0 to 8.0	hr	4.0 to 8.0	hr
Suggested Max Moisture	0.020	%	0.020	%
Rear Temperature	630 to 750	°F	332 to 399	°C
Middle Temperature	640 to 750	°F	338 to 399	°C
Front Temperature	650 to 750	°F	343 to 399	°C
Nozzle Temperature	650 to 750	°F	343 to 399	°C
Processing (Melt) Temp	660 to 750	°F	349 to 399	°C
Mold Temperature	275 to 325	°F	135 to 163	°C

Our staff is available to answer questions and provide technical assistance at 978.537.8261

The information presented here is, to our best knowledge, true and accurate. However, since conditions of use are beyond our control, all recommendations or suggestions are presented without guarantee or responsibility on our part. We disclaim all liability in connection with the use of information contained herein or otherwise. All risks of such use are assumed by the user. Furthermore, nothing contained herein shall be construed as an inducement or recommendation to use any process or to manufacture or use any product in conflict with existing or future patents.