AuroraGuard™ ENV17-70776

Aurora Material Solutions, LLC - Polyetherimide

Monday, November 23, 2026

General Information

Product Description

AuroraGuard™ ENV17-70776 is a 10% glass fiber reinforced, black Polyetherimide (PEI) injection molding grade.

Formerly known as ENVIROPLAS® ENV17-70776

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Features	• Flame Retardant • Good Thermal Stability	• High Stiffness • High Strength	
Uses	• Aircraft Applications • Automotive Applications	• Furniture • Personal Care	• Pharmaceuticals
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		
Literature	• Literature Library • Locate Your Sales Representative | Aurora Material Solutions		

Properties

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density / Specific Gravity	1.34		1.34	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	7.0	g/10 min	7.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	0.50 to 0.70	%	ASTM D955
Ash Content	10	%	10	%	ASTM D5630
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength (Break)	16000	psi	110	MPa	ASTM D638
Tensile Elongation (Break)	6.0	%	6.0	%	ASTM D638
Flexural Modulus	740000	psi	5100	MPa	ASTM D790
Flexural Strength	28000	psi	193	MPa	ASTM D790
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Notched Izod Impact (73°F (23°C))	1.0	ft·lb/in	53	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	405	°F	207	°C	
Flammability	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Flame Rating					Internal Method
0.06 in (1.6 mm)	V-0		V-0		
0.13 in (3.2 mm)	5VA		5VA		

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™ ENV17-70776

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 6.0	hr	4.0 to 6.0	hr
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
Mold Temperature	275 to 325	°F	135 to 163	°C
Injection Rate	Moderate-Fast		Moderate-Fast	
Back Pressure	50.0 to 100	psi	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm	40 to 70	rpm

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.