AuroraGuard™ 170-(a)

Aurora Material Solutions, LLC - Polyetherimide

Monday, November 23, 2026

General Information

Product Description

AuroraGuard™ 170-(a) is an unreinforced injection molding grade of Polyetherimide (PEI.)

(a) denotes a specified color descriptor.
Available in transparent amber and custom opaque colors.

Formerly branded as ENVIROPLAS®.

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Features	• Flame Retardant • Good Thermal Stability	• High Stiffness • High Strength	
Uses	• Aircraft Applications	• Automotive Applications	• Batteries
RoHS Compliance	• RoHS Compliant		
UL File Number	• E192776		
Appearance	• Clear Amber	• Colors Available	• Opaque
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	1.27		1.27	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	8.0	g/10 min	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	0.50 to 0.70	%	ASTM D955
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength (Yield)	15800	psi	109	MPa	ASTM D638
Tensile Elongation (Break)	55	%	55	%	ASTM D638
Flexural Modulus	510000	psi	3520	MPa	ASTM D790
Flexural Strength	23600	psi	163	MPa	ASTM D790
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Notched Izod Impact (73°F (23°C))	0.60	ft·lb/in	32	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	
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)	5VA		5VA		

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

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