AuroraGuard™ ENV17-NC050

Aurora Material Solutions, LLC - Polyetherimide

Monday, November 23, 2026

General Information

Product Description

Injection Molding Grade, 20% Fiberglass Reinforced, Natural Amber Tint, Flame Retardant, Excellent Thermal Performance, High Mechanical Strength and Stiffness, RoHS Compliant
NC050 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
The ENV17 Series Products Are Available With Mold Release and/or UV Stabilizer.
Contact Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROPLAS® ENV17-NC050

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant • Good Thermal Stability	• High Stiffness • High Strength	
Uses	• Aircraft Applications • Automotive Applications	• Furniture • Pharmaceuticals	• Rail Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Black • Clear Amber	• Colors Available • Natural Color	
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	1.42		1.42	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	6.0	g/10 min	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	0.30 to 0.50	%	ASTM D955
Ash Content	20	%	20	%	ASTM D5630
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Strength (Break)	18700	psi	129	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	4.0	%	ASTM D638
Flexural Modulus	1.00E+6	psi	6890	MPa	ASTM D790
Flexural Strength	32500	psi	224	MPa	ASTM D790
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Notched Izod Impact (73°F (23°C))	1.2	ft·lb/in	64	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	407	°F	208	°C	

Our staff is available to answer questions and provide technical assistance at 978.537.8261
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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.06 in (1.6 mm))	• V-0 • 5VA	• V-0 • 5VA	Internal Method

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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