

AuroraGuard™ ENV17-NC060

Aurora Material Solutions, LLC - Polyetherimide

General Information

Product Description

Injection Molding Grade Polyetherimide (PEI). 30% Fiberglass Reinforced, Flame Retardant with Excellent Thermal Performance, High Mechanical Strength and Stiffness. RoHS Compliant.

NC060 = 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 branded as ENVIROPLAS®.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • High Stiffness • Good Thermal Stability • High Strength
Uses	• Aircraft Applications • Furniture • Rail Applications • Automotive Applications • Pharmaceuticals
RoHS Compliance	• RoHS Compliant
Appearance	• Black • Colors Available • Clear Amber • Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.51		ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Ash Content	30	%	ASTM D5630
Mechanical			
Tensile Strength (Yield)	23000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	1.24E+6	psi	ASTM D790
Flexural Strength	32000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	1.6	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	405	°F	ASTM D648
Flammability			
Flame Rating (0.06 in)	• V-0 • 5VA		Internal Method

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	300	°F
Drying Time	4.0 to 6.0	hr
Rear Temperature	630 to 750	°F
Middle Temperature	640 to 750	°F



Front Temperature	650 to 750 °F
Nozzle Temperature	650 to 750 °F
Mold Temperature	275 to 325 °F
Injection Rate	Moderate-Fast
Back Pressure	70.0 to 150 psi
Screw Speed	40 to 70 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

