

**AuroraGuard™ ENV17-NC020**

Aurora Material Solutions, LLC - Polyetherimide

**General Information**
**Product Description**

Injection Molding Grade, Transparent/Natural Amber Tint, Flame Retardant, Excellent Thermal Performance, High Mechanical Strength and Stiffness, RoHS Compliant  
 NC020 = 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-NC020

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Flame Retardant		
Features	• Flame Retardant • Good Thermal Stability	• High Stiffness • High Strength	
Uses	• Aircraft Applications • Automotive Applications	• Personal Care • Pharmaceuticals	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black • Clear Amber	• Colors Available • Natural Color	
Forms	• Pellets		
Processing Method	• Injection Molding		

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.27		ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Strength (Yield)	15800	psi	ASTM D638
Tensile Elongation (Break)	55	%	ASTM D638
Flexural Modulus	510000	psi	ASTM D790
Flexural Strength	23600	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F)	0.80	ft·lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	390	°F	ASTM D648
<b>Flammability</b>			
Flame Rating			Internal Method
0.06 in		V-0	
0.13 in		5VA	

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
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	50.0 to 100 psi
Screw Speed	40 to 70 rpm

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

