

**AuroraGuard™ ENV07-NC520**

Aurora Material Solutions, LLC - Polybutylene Terephthalate

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

Injection Molding Grade, 33% Fiberglass Reinforced, Impact Modified,  
 Good Chemical Resistance, RoHS Compliant  
 NC520 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.  
 The ENV07 Series Products Are Available With Mold Release and/or UV Stabilizer.  
 Contact Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROPLAS® ENV07-NC520

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight
Additive	• Impact Modifier
Features	• Chemical Resistant • Impact Modified
Uses	• Appliances • Automotive Under the Hood • Water Management
RoHS Compliance	• RoHS Compliant
Appearance	• Black • 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	1.52		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3	in/in	ASTM D955
Ash Content	33	%	ASTM D5630
<b>Mechanical</b>			
Tensile Strength (Break)	14200	psi	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	24600	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F)	2.1	ft-lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	403	°F	ASTM D648
<b>Flammability</b>			
Flame Rating (0.06 in)	HB		Internal Method

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	460 to 490	°F
Middle Temperature	470 to 510	°F
Front Temperature	480 to 520	°F
Nozzle Temperature	470 to 510	°F
Mold Temperature	150 to 190	°F
Injection Rate	Moderate	
Back Pressure	50.0 to 100	psi
Screw Speed	50 to 80	rpm

