

## AuroraGuard™ ENV08-NC460

Aurora Material Solutions, LLC - Polybutylene Terephthalate

### General Information

#### Product Description

Injection Molding Grade, 30% Fiberglass Reinforced, Flame Retardant,  
 Good Chemical and Heat Resistance, RoHS Compliant  
 NC460 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.  
 The ENV08 Series Products Are Available With Mold Release and/or UV Stabilizer.  
 Contact Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROPLAS® ENV08-NC460

#### 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	• Chemical Resistant	• Flame Retardant	• High Heat Resistance
Uses	• Appliances	• Industrial Applications	
	• Automotive Under the Hood	• Lighting Applications	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.63		ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	42	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 8.0E-3	in/in	ASTM D955
Ash Content	30	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	13900	psi	ASTM D638
Flexural Modulus	1.40E+6	psi	ASTM D790
Flexural Strength	25000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.0	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	380	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			Internal Method
0.06 in		V-0	
0.12 in		5VA	

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	470 to 500	°F
Middle Temperature	480 to 520	°F
Front Temperature	490 to 530	°F



Nozzle Temperature	480 to 520 °F
Mold Temperature	150 to 190 °F
Injection Rate	Moderate
Back Pressure	50.0 to 100 psi
Screw Speed	50 to 80 rpm

#### Notes

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

