

## AuroraGuard™ ENV12-NC110

Aurora Material Solutions, LLC - Polycarbonate

### General Information

#### Product Description

Injection Molding Grade, High Flow For Small Complex Parts, RoHS Compliant  
 NC110 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.  
 The ENV12 Series Products Are Available With Mold Release and/or UV Stabilizer.  
 Contact Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROPLAS® ENV12-NC110

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• High Flow		
Uses	• Appliances	• Fluid Handling	
	• Automotive Applications	• Personal Care	
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	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9100	psi	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	335000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	13	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	265	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-2		Internal Method

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	230	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	500 to 525	°F
Middle Temperature	510 to 550	°F
Front Temperature	530 to 570	°F
Nozzle Temperature	520 to 555	°F
Processing (Melt) Temp	530 to 570	°F
Mold Temperature	170 to 200	°F
Injection Rate	Moderate-Fast	
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

