

**AuroraGuard™ ENV15-NC710**

Aurora Material Solutions, LLC - Polycarbonate + ABS

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

Injection Molding Grade, Flame Retardant, High Flow, RoHS Compliant  
 NC710 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.  
 The ENV15 Series Products Are Available With Mold Release and/or UV Stabilizer.  
 Contact Enviropas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROLOY® ENV15-NC710

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• High Flow	
Uses	• Automotive Applications	• Construction Applications	• Electrical/Electronic 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	1.19		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	30	g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8600	psi	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	335000	psi	ASTM D790
Flexural Strength	13000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	10	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	195	°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	180	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	440 to 500	°F
Middle Temperature	440 to 510	°F
Front Temperature	470 to 530	°F
Nozzle Temperature	470 to 530	°F
Mold Temperature	140 to 180	°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.

