

## AuroraGuard™ ENV15-NC390

Aurora Material Solutions, LLC - Polycarbonate + ABS

### General Information

#### Product Description

Injection Molding Grade, Non-Halogenated - Non-Chlorinated Flame Retardant,  
UV Stabilized, w/Mold Release, Good Heat Resistance, RoHS Compliant  
NC390 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.  
Contact Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROLOY® ENV15-NC390

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant	• Mold Release	• UV Stabilizer
Features	• Chlorine Free	• Good Mold Release	• High Heat Resistance
	• Flame Retardant	• Halogen Free	• UV Resistant
Uses	• Appliances	• Electrical Parts	
	• Automotive Applications	• Fluid Handling	
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	1.18		ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
240°C/5.0 kg	16	g/10 min	
260°C/5.0 kg	22	g/10 min	
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	8800	psi	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	345000	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	480 to 530	°F
Middle Temperature	480 to 530	°F



Front Temperature	490 to 550 °F
Nozzle Temperature	480 to 520 °F
Mold Temperature	150 to 200 °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.

