

## AuroraGuard™ ENV15-NC350

Aurora Material Solutions, LLC - Polycarbonate + ABS

### General Information

#### Product Description

Injection Molding Grade for Plating Applications, Excellent Flow and Impact Performance, RoHS Compliant  
 NC350 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.  
 The ENV15 Series Products Are Available with UV Stabilizer.  
 Contact Enviropas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROLOY® ENV15-NC350

#### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Good Flow	• Good Impact Resistance	• Platable
Uses	• Automotive Exterior Parts	• Automotive Interior Parts	• Recreational Vehicle 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	1.10		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	14	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)	7300	psi	ASTM D638
Flexural Modulus	300000	psi	ASTM D790
Flexural Strength	10500	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 (66 psi, Unannealed)	240	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	210	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	215	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.040	%
Rear Temperature	480 to 540	°F
Middle Temperature	490 to 550	°F
Front Temperature	490 to 550	°F
Nozzle Temperature	500 to 550	°F
Mold Temperature	170 to 210	°F
Injection Rate	Moderate-Fast	
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

