

AuroraGuard™ ENV15-NC250

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information

Product Description

Injection Molding Grade, Low Viscosity, High Impact Resistance, RoHS Compliant
 NC250 = To Be Assigned 5 Digit Number Indicating Opaque Natural, Black, or Opaque Custom Color.
 The ENV15 Series Products Are Available With Mold Release and/or UV Stabilizer.

Formerly known as ENVIROLOY® ENV15-NC250

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• High Impact Resistance	• Low Viscosity	
Uses	• Aerospace Applications	• Appliances	• Automotive Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Natural Color	
	• Colors Available	• Opaque	
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.14		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical			
Tensile Strength (Yield)	8200	psi	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	336000	psi	ASTM D790
Flexural Strength	12400	psi	ASTM D790
Impact			
Notched Izod Impact (73°F)	12	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	250	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	225	°F	ASTM D648

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	220	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	500 to 550	°F
Middle Temperature	520 to 570	°F
Front Temperature	520 to 570	°F
Nozzle Temperature	510 to 560	°F
Mold Temperature	140 to 180	°F
Injection Rate	Moderate-Fast	
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

