

AuroraGuard™ ENV15-NC280

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information
Product Description

Injection Molding Grade, Low Gloss, UV Stabilized, Interior Automotive Trim Applications, RoHS Compliant
 NC280 = 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.

Formerly known as ENVIROLOY® ENV15-NC280

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• UV Stabilizer		
Features	• Low Gloss	• UV Resistant	
Uses	• Automotive Interior Parts	• Electronic Displays	• Recreational Vehicle Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.13		ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 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)	7800	psi	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	328000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-22°F	6.0	ft·lb/in	
73°F	10	ft·lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	225	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Burning Rate	< 3.5	in/min	FMVSS 302
Optical	Nominal Value	Unit	Test Method
Gloss (60°, Untextured)	32		ASTM D523

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	220	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	490 to 560	°F
Middle Temperature	490 to 560	°F
Front Temperature	510 to 580	°F
Nozzle Temperature	525 to 585	°F



Mold Temperature	150 to 190 °F
Injection Rate	Moderate-Fast
Back Pressure	50.0 to 100 psi
Screw Speed	40 to 70 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

