

AuroraGuard™ ENV16-NC300

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information
Product Description

Injection Molding Grade, Low Gloss, Excellent For Temperature Fluctuations, RoHS Compliant
 NC300 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
 The ENV16 Series Products Are Available With Mold Release and/or UV Stabilizer.

Formerly known as ENVIROLOY® ENV16-NC300

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Low Gloss		
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)			ASTM D1238
260°C/3.8 kg	5.0	g/10 min	
260°C/5.0 kg	7.5	g/10 min	
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7700	psi	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	330000	psi	ASTM D790
Flexural Strength	11500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-22°F	8.0	ft·lb/in	
73°F	12	ft·lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	225	°F	ASTM D648
Optical	Nominal Value	Unit	Test Method
Gloss (60°, Smooth)	25		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.

