

AuroraGuard™ ENV15-10267

Aurora Material Solutions, LLC - Polycarbonate + ABS

General Information
Product Description

AuroraGuard™ ENV15-10267 is a High Flow, UV-Stabilized, Natural Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) Injection Molding Grade.
Formerly branded as ENVIROLOY®.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Latin America • Europe • North America
Features	• Hydrolytically Stable • Low Temperature Resistant
Uses	• Automotive Interior Parts
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.11		ASTM D790
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-5 to 7.0E-5	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	342000	psi	ASTM D638
Tensile Stress (Yield)	7300	psi	ASTM D638
Tensile Strain (Break)	> 50	%	ASTM D638
Flexural Modulus	3.36E+6	psi	ASTM D790
Flexural Stress	12500	psi	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ASTM D256
-22°F	7.5	ft·lb/in ²	
73°F	11	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	245	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	210	°F	ASTM D648
Vicat Softening Temperature	235	°F	ASTM D1525 ²
Flammability	Nominal Value	Unit	Test Method
Burning Rate (0.125 in, Self-Extinguishing)	< 0.0	in/min	ISO 3795
Flame Rating (0.06 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185 to 230	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	430 to 450	°F
Middle Temperature	450 to 480	°F
Front Temperature	450 to 480	°F
Nozzle Temperature	490 to 520	°F
Processing (Melt) Temp	490 to 520	°F



Mold Temperature	150 to 180 °F
Injection Rate	Moderate-Fast
Back Pressure	50.0 to 200 psi
Screw Speed	40 to 70 rpm

Notes

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

² B (50N)

