

AuroraGuard™ ENV00-99038

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

AuroraGuard™ ENV00-99038 is a Grey, Acrylonitrile Butadiene Styrene (ABS) Injection Molding Grade that Provides Excellent Plating and Painting Performance.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chrome Platable		
Uses	• Appliances • Automotive Applications	• Consumer Applications • Recreational Vehicle Applications	
RoHS Compliance	• RoHS Compliant		
Appearance	• Grey		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	17	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	3.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	319000	psi	ASTM D638
Tensile Strength (Yield)	6800	psi	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	334000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-22°F	1.8	ft·lb/in	
73°F	4.8	ft·lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	186	°F	ASTM D648
Vicat Softening Temperature	212	°F	ASTM D1525

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 185	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	375 to 415	°F
Middle Temperature	390 to 430	°F
Front Temperature	430 to 470	°F
Nozzle Temperature	430 to 470	°F
Mold Temperature	105 to 175	°F
Injection Rate	Moderate-Fast	
Back Pressure	100 to 200	psi
Screw Speed	60 to 80	rpm

