

AuroraGuard™ ENV00-NC010

Aurora Material Solutions, LLC - *Acrylonitrile Butadiene Styrene*

General Information

Product Description

Injection Molding - Plating Grade, Gray, Excellent Adhesion, RoHS Compliant

Formerly known as ENVIROPLAS® ENV00-NC010

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Good Adhesion	• Platable	
Uses	• Pacifiers		
RoHS Compliance	• RoHS Compliant		
Appearance	• Grey		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5600	psi	ASTM D638
Flexural Modulus	290000	psi	ASTM D790
Flexural Strength	7900	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	4.9	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	187	°F	ASTM D648
Vicat Softening Temperature	205	°F	ASTM D1525

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	190	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	440 to 480	°F
Middle Temperature	450 to 480	°F
Front Temperature	450 to 480	°F
Nozzle Temperature	440 to 480	°F
Mold Temperature	105 to 170	°F
Injection Rate	Moderate-Fast	
Back Pressure	140 to 180	psi
Screw Speed	30 to 80	rpm

Notes

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

