

AuroraGuard™ ENV00-NC650

Aurora Material Solutions, LLC - *Acrylonitrile Butadiene Styrene*

General Information

Product Description

Extrusion and Injection Molding Grade, Natural, Medium Gloss, FDA Compliant, Reach/RoHS Compliant

Formerly known as ENVIROPLAS® ENV00-NC650

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Medium Gloss		
Uses	• General Purpose		
Agency Ratings	• EC 1907/2006 (REACH)	• FDA	
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion	• 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)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6000	psi	ASTM D638
Flexural Modulus	370000	psi	ASTM D790
Flexural Strength	9500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	5.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	183	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	190	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	455 to 480	°F
Middle Temperature	465 to 490	°F
Front Temperature	475 to 500	°F
Nozzle Temperature	475 to 525	°F
Mold Temperature	110 to 150	°F
Injection Rate	Fast	
Back Pressure	0.00 to 25.0	psi
Screw Speed	Moderate	

Notes

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

