

AuroraGuard™ ENV01-10688

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

Injection Molding Grade, Transparent - High Clarity, Excellent Processability, BPA Free, RoHS Compliant
Formerly known as ENVIROPLAS® ENV01-NC560

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Processability	• High Clarity	
Uses	• Appliance Components	• Lids	
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.11		ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	25	g/10 min	
230°C/3.8 kg	10	g/10 min	
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6900	psi	ASTM D638
Flexural Modulus	340000	psi	ASTM D790
Flexural Strength	11000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	180	°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	370 to 410	°F
Middle Temperature	390 to 430	°F
Front Temperature	410 to 440	°F
Nozzle Temperature	410 to 440	°F
Mold Temperature	120 to 160	°F
Injection Rate	Moderate-Fast	
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm

Notes

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

