

AuroraGuard™ ENV00-NC690

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

Injection Molding Grade, 20% Fiberglass Reinforced, RoHS Compliant
 NC550 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
 The ENV00 Series Products Are Available With Mold Release and/or UV Stabilizer.

Formerly known as ENVIROPLAS® ENV00-NC690

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Uses	• Appliance Components	• Business Equipment	• Electrical/Electronic Applications
RoHS Compliance	• RoHS Compliant		
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.18		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3	in/in	ASTM D955
Ash Content	20	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	11400	psi	ASTM D638
Flexural Modulus	725000	psi	ASTM D790
Flexural Strength	17000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.2	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	215	°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	175	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	420 to 480	°F
Middle Temperature	420 to 500	°F
Front Temperature	430 to 510	°F
Nozzle Temperature	440 to 525	°F
Mold Temperature	140 to 180	°F
Injection Rate	Slow-Moderate	
Back Pressure	50.0 to 75.0	psi
Screw Speed	30 to 60	rpm

