

AuroraGuard™ ENV00-NC670

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

Injection Molding Grade, 5% Fiberglass Reinforced, RoHS Compliant
 NC670 = 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-NC670

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 5.0% Filler by Weight		
Uses	• Construction Applications	• Material Handling	
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	1.08		ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
220°C/10.0 kg	7.8	g/10 min	
230°C/3.8 kg	5.0	g/10 min	
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Ash Content	5.0	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6400	psi	ASTM D638
Flexural Modulus	420000	psi	ASTM D790
Flexural Strength	9000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	1.7	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	202	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	HB		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	3.0 to 5.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	450 to 500	°F
Middle Temperature	450 to 500	°F
Front Temperature	450 to 500	°F
Nozzle Temperature	450 to 500	°F
Mold Temperature	120 to 150	°F
Injection Rate	Slow-Moderate	
Back Pressure	100 to 300	psi
Screw Speed	30 to 60	rpm



Notes

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

