

AuroraGuard™ ENV00-NC700

Aurora Material Solutions, LLC - Acrylonitrile Butadiene Styrene

General Information

Product Description

Injection Molding Grade, Flame Retardant, Medium Flow,
Excellent Stiffness Combined With Impact Resistance, Reach/RoHS Compliant
NC700 = 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-NC700

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• High Stiffness	
	• High Impact Resistance	• Medium Flow	
Uses	• Electrical/Electronic Applications		
Agency Ratings	• EC 1907/2006 (REACH)		
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	1.19		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	4.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	6300	psi	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	380000	psi	ASTM D790
Flexural Strength	10500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	3.5	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	185	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	160	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			Internal Method
0.06 in	V-0		
0.12 in	5VA		

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	350 to 380	°F
Middle Temperature	370 to 400	°F
Front Temperature	380 to 410	°F



Nozzle Temperature	390 to 420 °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.

