

AuroraGuard™ ENV12-NC220

Aurora Material Solutions, LLC - Polycarbonate

General Information
Product Description

Injection Molding Grade, High Flow, UV Stabilized, w/Mold Release, RoHS Compliant
 NC210 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
 Contact Enviropas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROPLAS® ENV12-NC220

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Mold Release • UV Stabilizer		
Features	• Good Mold Release	• High Flow	• UV Resistant
Uses	• Appliances • Automotive Applications	• Fluid Handling • Personal Care	
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	1.20		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	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)	9200	psi	ASTM D638
Tensile Elongation (Break)	120	%	ASTM D638
Flexural Modulus	340000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	17	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	280	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	265	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating			Internal Method
0.06 in	V-2		
0.12 in	V-2		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	230	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	500 to 540	°F
Middle Temperature	520 to 560	°F
Front Temperature	540 to 580	°F
Nozzle Temperature	550 to 600	°F
Mold Temperature	155 to 200	°F



Injection Rate	Moderate-Fast
Back Pressure	50.0 to 100 psi
Screw Speed	40 to 70 rpm

Notes

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

