

AuroraGuard™ ENV13-NC240

Aurora Material Solutions, LLC - Polycarbonate

General Information

Product Description

Injection Molding - Structural Foaming Grade, Non-Halogenated/Non-Brominated Flame Retardant, 5 % Fiberglass Reinforced, RoHS Compliant
 NC0240 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
 The ENV13 Series Products Are Available With Mold Release and/or UV Stabilizer.
 Contact Enviroplas Regarding UL Recognized Versions Of This Product.

Formerly known as ENVIROPLAS® ENV13-NC240

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
Additive	• Flame Retardant
Features	• Bromine Free • Foamable • Flame Retardant • Halogen Free
Uses	• Structural Foam
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	1.23		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Ash Content	5.0	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	9800	psi	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
Flexural Strength	15000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.2	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	288	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	• V-0 • 5VA		Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	225	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	490 to 510	°F
Middle Temperature	560 to 600	°F
Front Temperature	560 to 600	°F
Nozzle Temperature	520 to 560	°F
Mold Temperature	165 to 200	°F



Injection Notes

Recommended Blow Agent (FLC95) Drying: 4 hrs. @ 225 °F

Recommended Blowing Agent Concentration: 1.5 % nominal / Range 3 - 5 %

Notes

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

