AuroraGuard™ ENV13-NC160

Aurora Material Solutions, LLC - *Polycarbonate*

General Information

Product Description

Injection Molding - Structural Foaming Grade, Flame Retardant, 10% Fiberglass, Reinforced, High Heat and Impact Resistance, RoHS Compliant
NC0160 = 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-NC160

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant • Foamable	• Good Impact Resistance • High Heat Resistance	
Uses	• Electrical/Electronic Applications	• Outdoor Applications	• 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	1.27		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3	in/in	ASTM D955
Ash Content	10	%	ASTM D5630
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	7800	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
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 Drying Conditions: 4 hours @ 225 °F for Blowing Agent Recommended Blowing Agent Concentration: 1.5% nominal/ range 3 to 5%

Notes

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