AuroraGuard™ ENV13-NC150

Aurora Material Solutions, LLC - *Polycarbonate*

General Information

Product Description

Injection Molding - Foaming Grade, 10% Fiberglass Reinforced,
Non-Brominated/Chlorine-Free Flame Retardant, Impact-Modified, RoHS Compliant
NC0150 = 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-NC150

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	• Impact Modifier	
Features	• Bromine Free • Chlorine Free	• Flame Retardant • Foamable	• Impact Modified
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	1.25		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
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	8000	psi	ASTM D638
Flexural Modulus	385000	psi	ASTM D790
Flexural Strength	13000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	2.5	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
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-1		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	490 to 510	°F
Middle Temperature	560 to 590	°F
Front Temperature	560 to 590	°F
Nozzle Temperature	520 to 560	°F
Mold Temperature	165 to 215	°F

Injection Notes

Recommended Drying Conditions: 4 hours @ 220 °F for Blowing Agent (Recommended 1.5%)

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