

ENVIROPLAS® ENV13-NC160

Polycarbonate

ENVIROPLAS®, Inc.

Message:

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 Enviropas Regarding UL Recognized Versions Of This Product.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	Flame retardancy		
Features	Impact resistance, good		
	Foamable property		
	Heat resistance, high		
	Flame retardancy		
Uses	Structural Foam		
RoHS Compliance	RoHS compliance		
Appearance	Black		
	Available colors		
	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 - 0.60	%	ASTM D955
Ash Content	10	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	53.8	MPa	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	142	°C	ASTM D648
Flammability	Nominal Value		Test Method

Flame Rating (3.00 mm)	5VA	Internal method
Injection	Nominal Value	Unit
Drying Temperature	107	°C
Drying Time	3.0 - 4.0	hr
Rear Temperature	254 - 266	°C
Middle Temperature	293 - 316	°C
Front Temperature	293 - 316	°C
Nozzle Temperature	271 - 293	°C
Mold Temperature	73.9 - 93.3	°C
Injection instructions		

Recommended Drying Conditions: 4 hours @ 225 °F for Blowing Agent Recommended Blowing Agent Concentration: 1.5% nominal/ range 3 to 5%

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Recommended distributors for this material

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