

# ENVIROPLAS® ENV13-NC170

Polycarbonate

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, Foamable, 10% Fiberglass Reinforced, Black, Flame Retardant,  
w/Mold Release, RoHS Compliant

Contact Enviroplas Regarding UL Recognized Versions Of This Product.

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Flame Retardant		
	Mold Release		
Features	Flame Retardant		
	Foamable		
	Good Mold Release		
Uses	Foam		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.20 to 0.40	%	ASTM D955
Ash Content	10	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	62.1	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)	110	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			Internal Method

V-0

2.40 mm

5VA

3.00 mm

V-0

Injection	Nominal Value	Unit
Drying Temperature	121	°C
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	282 to 304	°C
Middle Temperature	293 to 316	°C
Front Temperature	288 to 316	°C
Nozzle Temperature	293 to 321	°C
Mold Temperature	79.4 to 110	°C
Injection Rate	Moderate	
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm

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#### Recommended distributors for this material

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