

# ENVIROPLAS® ENV49-NC750

Polysulfone + PC

ENVIROPLAS®, Inc.

## Message:

Injection Molding Grade, 20% Fiberglass Reinforced, Flame Retardant,  
Excellent Thermal Performance, High Mechanical Strength and Stiffness, RoHS Compliant  
NC750 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.  
The ENV49 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,20% Filler by Weight		
Features	Flame Retardant		
	High Heat Resistance		
	High Stiffness		
	High Strength		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	28	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	106	MPa	ASTM D638
Flexural Modulus	5390	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	166	°C	ASTM D648
Flammability	Nominal Value		Test Method

Flame Rating (3.00 mm)	5VA	Internal Method
Injection	Nominal Value	Unit
Drying Temperature	135	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.020	%
Rear Temperature	321 to 332	°C
Middle Temperature	327 to 343	°C
Front Temperature	338 to 354	°C
Nozzle Temperature	332 to 343	°C
Mold Temperature	98.9 to 110	°C
Injection Rate	Moderate	
Back Pressure	0.00 to 0.345	MPa
Screw Speed	40 to 70	rpm

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#### Recommended distributors for this material

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