

ENVIROPLAS® ENV17-NC050

Polyether Imide

ENVIROPLAS®, Inc.

Message:

Injection Molding Grade, 20% Fiberglass Reinforced, Natural Amber Tint, Flame Retardant, Excellent Thermal Performance, High Mechanical Strength and Stiffness, RoHS Compliant
NC050 = To Be Assigned 5 Digit Number Indicating Natural, Black, or Custom Color.
The ENV17 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		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Thermal Stability		
	High Stiffness		
	High Strength		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Clear Amber		
	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Ash Content	20	%	ASTM D5630
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	129	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	224	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	208	°C	ASTM D648
Flammability	Nominal Value		Test Method

Flame Rating (1.59 mm)	5VA	Internal Method
Injection	Nominal Value	Unit
Drying Temperature	149	°C
Drying Time	4.0 to 6.0	hr
Rear Temperature	332 to 399	°C
Middle Temperature	338 to 399	°C
Front Temperature	343 to 399	°C
Nozzle Temperature	343 to 399	°C
Mold Temperature	135 to 163	°C
Injection Rate	Moderate-Fast	
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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