

ENVIROPLAS® ENV48-NC570

Polysulfone

ENVIROPLAS®, Inc.

Message:

Injection Molding Grade, Excellent Resistance to Oxidation and Hydrolysis,
Suitable for Prolonged High Temperature Use (300°F Max.),
Chemically Resistant to Mineral Acids, Alkali and Salt Solutions,
Good Resistance to Detergents and Hydrocarbon Oils. RoHS Compliant
NC570 = To Be Assigned 5 Digit Number Indicating Transparent Amber Tint, Black, or Custom Color.

General Information			
Features	Detergent Resistant		
	Good Chemical Resistance		
	High Heat Resistance		
	Hydrocarbon Resistant		
	Hydrolysis Resistant		
	Oil Resistant		
	Oxidation Resistant		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
	Clear/Transparent		
	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (337°C/6.6 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.60 to 0.90	%	ASTM D955
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	75.8	MPa	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	100	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	59	J/m	ASTM D256
Gardner Impact (23°C)	49.7	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	171	°C	ASTM D648
Injection	Nominal Value	Unit	

Drying Temperature	138	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	329 to 360	°C
Middle Temperature	329 to 360	°C
Front Temperature	329 to 360	°C
Nozzle Temperature	329 to 360	°C
Mold Temperature	121 to 154	°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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