

Plenco 2369 Phenolic, Granular, Transfer Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Resole, Wood Filled

Material Notes:

PLENCO 02369 is a general purpose, organic filled phenolic molding compound, formulated to minimize the generation of free ammonia for applications that are sensitive to such formation. PLENCO 02369 offers excellent physical and electrical strength properties. UL recognized under component file E40654. 02369 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2369-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in ³	ASTM D1895
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.63 %	0.63 %	ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	72	72	ASTM D785
Tensile Strength, Ultimate	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	0.98 %	0.98 %	ASTM D638
Tensile Modulus	7.30 GPa	1060 ksi	ASTM D638
Flexural Strength	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 ksi	ASTM D790
Compressive Strength	190 MPa	27600 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	2.70 GPa	392 ksi	Calculated
Izod Impact, Notched	0.178 J/cm	0.333 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.192 J/cm ²	0.914 ft-lb/in ²	ASTM D256
Impact	109	109	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	67.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	37.2 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	183 °C	361 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	177 °C	351 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Shrinkage	0.51 %	0.51 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.90e+12 ohm-cm	5.90e+12 ohm-cm	ASTM D247
Dielectric Constant	6.2	6.2	ASTM D150
Dielectric Strength	9.20 kV/mm	234 kV/in	Short Time; ASTM D149
Dissipation Factor	0.058	0.058	ASTM D150
Arc Resistance	134 sec	134 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China