

Plenco 2369 Phenolic, Granular, Compression 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-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.710 g/cc	0.0257 lb/in ³	ASTM D1895
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Water Absorption	0.54 %	0.54 %	ASTM D570
Linear Mold Shrinkage	0.0032 cm/cm	0.0032 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	68	68	ASTM D785
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	0.81 %	0.81 %	ASTM D638
Tensile Modulus	8.80 GPa	1280 ksi	ASTM D638
Flexural Strength	78.0 MPa	11300 psi	ASTM D790
Flexural Modulus	8.10 GPa	1170 ksi	ASTM D790
Compressive Strength	165 MPa	23900 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	3.26 GPa	473 ksi	Calculated
Izod Impact, Notched	0.182 J/cm	0.341 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.197 J/cm ²	0.938 ft-lb/in ²	ASTM D256
Impact	119	119	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 μm/m-°C	30.6 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.370 W/m-K @Temperature 100 °C	2.57 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	191 °C	376 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	194 °C	381 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	25.5 %	25.5 %	ASTM D2863
Shrinkage	0.36 %	0.36 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.40e+13 ohm-cm	2.40e+13 ohm-cm	ASTM D247
Dielectric Constant	5.6	5.6	ASTM D150
Dielectric Strength	13.7 kV/mm	348 kV/in	Short Time; ASTM D149
Dissipation Factor	0.046	0.046	ASTM D150
Arc Resistance	130 sec	130 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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