

## Plenco 2369 Phenolic, Granular, Injection 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-Injection-Molded.php](http://www.lookpolymers.com/polymer_Plenco-2369-Phenolic-Granular-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	ASTM D1895
Density	1.37 g/cc	0.0495 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.63 %	0.63 %	ASTM D570
Linear Mold Shrinkage	0.0084 cm/cm	0.0084 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	71	71	ASTM D785
Tensile Strength, Ultimate	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	1.02 %	1.02 %	ASTM D638
Tensile Modulus	7.40 GPa	1070 ksi	ASTM D638
Flexural Strength	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	6.60 GPa	957 ksi	ASTM D790
Compressive Strength	182 MPa	26400 psi	ASTM D695
Poissons Ratio	0.36	0.36	ASTM D638
Shear Modulus	2.72 GPa	395 ksi	Calculated
Izod Impact, Notched	0.166 J/cm	0.311 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.182 J/cm <sup>2</sup>	0.866 ft-lb/in <sup>2</sup>	ASTM D256
Impact	111	111	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	57.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	31.7 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	186 °C	367 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	165 °C	329 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Shrinkage	0.58 %	0.58 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+13 ohm-cm	1.20e+13 ohm-cm	ASTM D247
Dielectric Constant	5.7	5.7	ASTM D150
Dielectric Strength	9.90 kV/mm	251 kV/in	Short Time; ASTM D149
Dissipation Factor	0.056	0.056	ASTM D150
Arc Resistance	135 sec	135 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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