

## Plenco 2571 Phenolic, Granular, Compression Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Woodflour Filled

### Material Notes:

PLENCO 02571 is a general purpose, organic filled phenolic molding compound offering optimum cure characteristics while maintaining excellent mechanical and electrical properties. UL recognized under component file E40654. 02571 is available in black or brown color. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-2571-Phenolic-Granular-Compression-Molded.php](http://www.lookpolymers.com/polymer_Plenco-2571-Phenolic-Granular-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in <sup>3</sup>	ASTM D1895
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.40 %	0.40 %	ASTM D570
Linear Mold Shrinkage	0.0048 cm/cm	0.0048 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	87	87	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	0.69 %	0.69 %	ASTM D638
Tensile Modulus	8.30 GPa	1200 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	8.50 GPa	1230 ksi	ASTM D790
Compressive Strength	212 MPa	30700 psi	ASTM D695
Izod Impact, Notched	0.169 J/cm	0.317 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.191 J/cm <sup>2</sup>	0.909 ft-lb/in <sup>2</sup>	ASTM D256
Impact	109	109	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.370 W/m-K @Temperature 100 °C	2.57 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	205 °C	401 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa			ASTM D648

(264 psi) Thermal Properties	175 °C Metric	347 °F English	Comments
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	25.5 %	25.5 %	ASTM D2863
Shrinkage	0.173 %	0.173 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+11 ohm-cm	8.00e+11 ohm-cm	ASTM D247
Dielectric Constant	5.2	5.2	ASTM D150
Dielectric Strength	14.3 kV/mm	363 kV/in	Short Time; ASTM D149
Dissipation Factor	0.047	0.047	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.

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