

## Plenco 2571 Phenolic, Granular, Transfer 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-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-2571-Phenolic-Granular-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.590 g/cc	0.0213 lb/in <sup>3</sup>	ASTM D1895
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.32 %	0.32 %	ASTM D570
Linear Mold Shrinkage	0.0079 cm/cm	0.0079 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	88	88	ASTM D785
Tensile Strength, Ultimate	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	0.61 %	0.61 %	ASTM D638
Tensile Modulus	8.10 GPa	1170 ksi	ASTM D638
Flexural Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	7.30 GPa	1060 ksi	ASTM D790
Compressive Strength	209 MPa	30300 psi	ASTM D695
Poissons Ratio	0.36	0.36	ASTM D638
Shear Modulus	2.98 GPa	432 ksi	Calculated
Izod Impact, Notched	0.166 J/cm	0.311 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.195 J/cm <sup>2</sup>	0.928 ft-lb/in <sup>2</sup>	ASTM D256
Impact	102	102	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	66.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	36.7 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	196 °C	385 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	173 °C	343 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	29.1 %	29.1 %	ASTM D2863
Shrinkage	0.27 %	0.27 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.50e+11 ohm-cm	6.50e+11 ohm-cm	ASTM D247
Dielectric Constant	4.7	4.7	ASTM D150
Dielectric Strength	12.6 kV/mm	320 kV/in	Short Time; ASTM D149
Dissipation Factor	0.048	0.048	ASTM D150
Arc Resistance	136 sec	136 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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