

## Plenco 4504 Phenolic, Granular, Compression Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Mineral/Cellulose Filled

**Material Notes:**

Plenco 04504 is a renumber of Plaslok 504. Plenco 04504 is a two-stage, mineral and cellulose-filled phenolic molding compound having better impact and heat resistance than general purpose molding compounds. Since it also has good electrical properties, it has found use in a wide variety of wiring device applications. It is UL recognized under file E40654. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-4504-Phenolic-Granular-Compression-Molded.php](http://www.lookpolymers.com/polymer_Plenco-4504-Phenolic-Granular-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.660 g/cc	0.0238 lb/in <sup>3</sup>	ASTM D1895
Density	1.57 g/cc	0.0567 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.223 %	0.223 %	ASTM D570
Linear Mold Shrinkage	0.00283 cm/cm	0.00283 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	83	83	ASTM D785
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	0.51 %	0.51 %	ASTM D638
Tensile Modulus	11.3 GPa	1640 ksi	ASTM D638
Flexural Strength	74.0 MPa	10700 psi	ASTM D790
Flexural Modulus	9.80 GPa	1420 ksi	ASTM D790
Compressive Strength	183 MPa	26500 psi	ASTM D695
Izod Impact, Notched	0.174 J/cm	0.326 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.207 J/cm <sup>2</sup>	0.985 ft-lb/in <sup>2</sup>	ASTM D256
Impact	98	98	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	191 °C	376 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Shrinkage	0.127 %	0.127 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+12 ohm-cm	3.00e+12 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	13.1 kV/mm	333 kV/in	Short Time; ASTM D149
Dissipation Factor	0.044	0.044	ASTM D150
Arc Resistance	171 sec	171 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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