

## Plenco 4327 Phenolic, Granular, Compression Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Resole, Mineral Filled

### Material Notes:

PLENCO 04327 is a heat resistant mineral filled phenolic molding compound offering excellent cosmetic characteristics and improved heat resistant properties. PLENCO 04327 is not intended for electrical insulating applications. 04327 is available in black. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-4327-Phenolic-Granular-Compression-Molded.php](http://www.lookpolymers.com/polymer_Plenco-4327-Phenolic-Granular-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.680 g/cc	0.0246 lb/in <sup>3</sup>	ASTM D1895
Density	1.51 g/cc	0.0546 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.36 %	0.36 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	83	83	ASTM D785
Tensile Strength, Ultimate	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	0.91 %	0.91 %	ASTM D638
Tensile Modulus	8.90 GPa	1290 ksi	ASTM D638
Flexural Strength	85.0 MPa	12300 psi	ASTM D790
Flexural Modulus	8.40 GPa	1220 ksi	ASTM D790
Compressive Strength	200 MPa	29000 psi	ASTM D695
Izod Impact, Notched	0.156 J/cm	0.292 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.196 J/cm <sup>2</sup>	0.933 ft-lb/in <sup>2</sup>	ASTM D256
Impact	102	102	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 $\mu\text{m}/\text{m}\cdot\text{C}$	29.4 $\mu\text{in}/\text{in}\cdot\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 $^{\circ}\text{C}$	@Temperature 104 - 266 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	205 $^{\circ}\text{C}$	401 $^{\circ}\text{F}$	Heat Resistance; ASTM D570D

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	190 °C Metric	374 °F English	ASTM D1299 Comments
Shrinkage	0.284 %	0.284 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.20e+13 ohm-cm	4.20e+13 ohm-cm	ASTM D247
Dielectric Constant	5.7	5.7	ASTM D150
Dielectric Strength	11.6 kV/mm	295 kV/in	Short Time; ASTM D149
Dissipation Factor	0.033	0.033	ASTM D150
Arc Resistance	86 sec	86 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China