

## Plenco 3303 Phenolic, Granular, Injection Molded

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

### Material Notes:

Plenco 03303 is a renumber of Plaslok 5303. Plenco 03303 is a two-stage, mineral and flock-filled phenolic molding compound offering excellent electrical insulating properties. It can be processed by compression, transfer or injection molding . It is UL recognized under file E40654. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-3303-Phenolic-Granular-Injection-Molded.php](http://www.lookpolymers.com/polymer_Plenco-3303-Phenolic-Granular-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.610 g/cc	0.0220 lb/in <sup>3</sup>	ASTM D1895
Density	1.54 g/cc	0.0556 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.32 %	0.32 %	ASTM D570
Linear Mold Shrinkage	0.0084 cm/cm	0.0084 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	83	83	ASTM D785
Tensile Strength, Ultimate	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	0.77 %	0.77 %	ASTM D638
Tensile Modulus	9.80 GPa	1420 ksi	ASTM D638
Flexural Strength	82.0 MPa	11900 psi	ASTM D790
Flexural Modulus	8.70 GPa	1260 ksi	ASTM D790
Compressive Strength	182 MPa	26400 psi	ASTM D695
Izod Impact, Notched	0.193 J/cm	0.362 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.183 J/cm <sup>2</sup>	0.871 ft-lb/in <sup>2</sup>	ASTM D256
Impact	114	114	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	201 °C	394 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	168 °C	334 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Shrinkage	0.34 %	0.34 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.10e+11 ohm-cm	3.10e+11 ohm-cm	ASTM D247
Dielectric Constant	5.5	5.5	ASTM D150
Dielectric Strength	6.20 kV/mm	157 kV/in	Step by Step; ASTM D149
	9.40 kV/mm	239 kV/in	Short Time; ASTM D149
Dissipation Factor	0.068	0.068	ASTM D150
Arc Resistance	180 sec	180 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