

## Plenco 6343 Phenolic, Granular, Compression Molded

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

### Material Notes:

PLENCO 06343 is a mica reinforced phenolic molding compound, offering for a low power factor, low electrical losses, and good electrical properties after long exposures to high humidity. UL recognized under component file E40654. 06343 is available in natural color. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-6343-Phenolic-Granular-Compression-Molded.php](http://www.lookpolymers.com/polymer_Plenco-6343-Phenolic-Granular-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.850 g/cc	0.0307 lb/in <sup>3</sup>	ASTM D1895
Density	1.73 g/cc	0.0625 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.045 %	0.045 %	ASTM D570
Linear Mold Shrinkage	0.00285 cm/cm	0.00285 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	71	71	ASTM D785
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ASTM D638
Elongation at Break	0.31 %	0.31 %	ASTM D638
Tensile Modulus	15.6 GPa	2260 ksi	ASTM D638
Flexural Strength	55.0 MPa	7980 psi	ASTM D790
Flexural Modulus	12.1 GPa	1750 ksi	ASTM D790
Compressive Strength	169 MPa	24500 psi	ASTM D695
Izod Impact, Notched	0.166 J/cm	0.311 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	69	69	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.550 W/m-K @Temperature 100 °C	3.82 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	225 °C	437 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa			ASTM D648

(264 psi) Thermal Properties	190 °C Metric	374 °F English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	43 %	43 %	ASTM D2863
Shrinkage	0.040 %	0.040 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+13 ohm-cm	1.50e+13 ohm-cm	ASTM D247
Dielectric Constant	4.6	4.6	ASTM D150
Dielectric Strength	17.7 kV/mm	450 kV/in	Short Time; ASTM D149
Dissipation Factor	0.0172	0.0172	ASTM D150
Arc Resistance	188 sec	188 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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