

Plenco 3557 Phenolic, Granular, Compression Molded

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

Material Notes:

PLENCO 03557 is a woodflour and mineral filled phenolic molding compound offering excellent dielectric strength values at elevated temperatures while maintaining mechanical strength properties. UL recognized under component file E40654. 03557 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-3557-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.640 g/cc	0.0231 lb/in ³	ASTM D1895
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.53 %	0.53 %	ASTM D570
Linear Mold Shrinkage	0.0053 cm/cm	0.0053 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	78	78	ASTM D785
Tensile Strength, Ultimate	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	0.66 %	0.66 %	ASTM D638
Tensile Modulus	8.50 GPa	1230 ksi	ASTM D638
Flexural Strength	85.0 MPa	12300 psi	ASTM D790
Flexural Modulus	7.70 GPa	1120 ksi	ASTM D790
Compressive Strength	184 MPa	26700 psi	ASTM D695
Izod Impact, Notched	0.165 J/cm	0.309 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.187 J/cm ²	0.890 ft-lb/in ²	ASTM D256
Impact	111	111	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	194 °C	381 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	176 °C	349 °F	ASTM D648
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Oxygen Index	26.3 %	26.3 %	ASTM D2863
Shrinkage	0.36 %	0.36 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.40e+13 ohm-cm	2.40e+13 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	10.3 kV/mm	262 kV/in	Step by Step; ASTM D149
	13.6 kV/mm	345 kV/in	Short Time; ASTM D149
Dissipation Factor	0.042	0.042	ASTM D150
Arc Resistance	141 sec	141 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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