

Plenco 4100 Phenolic, Granular, Compression Molded (discontinued **)

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Heat Resistant Grade, Filled

Material Notes:

Two-stage Phenolic. PLENCO 04100 is a black two stage, medium heat resistant phenolic molding compound. It has excellent moldability characteristics and molded finish. It is used in appliance and oil field applications and can be molded by compression, transfer, or injection. Information supplied by Plenco

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4100-Phenolic-Granular-Compression-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Apparent Bulk Density	0.720 g/cc	0.0260 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.26 %	0.26 %	ASTM D570
Linear Mold Shrinkage	0.0033 cm/cm	0.0033 in/in	per ATM D955. Post shrinkage is 0.13% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	87	87	ASTM D785
Tensile Strength, Ultimate	60.5 MPa	8770 psi	ASTM D638
Elongation at Break	0.74 %	0.74 %	ASTM D638
Tensile Modulus	9.87 GPa	1430 ksi	ASTM D638
Flexural Yield Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	9.37 GPa	1360 ksi	ASTM D790
Compressive Yield Strength	207 MPa	30000 psi	ASTM D695
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ASTM D256
Impact	95	95	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	205 °C	401 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	199 °C	390 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 1.47 mm	V-1 @Thickness 0.0579 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.6811e+12 ohm-cm	2.6811e+12 ohm-cm	ASTM D257
Dielectric Constant	4.8 @Frequency 1e+6 Hz	4.8 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	14.7 kV/mm	373 kV/in	Short Time; ASTM D149
Dissipation Factor	0.037 @Frequency 1e+6 Hz	0.037 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	170 sec	170 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