

Plenco 4100 Phenolic, Granular, Injection 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-Injection-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Apparent Bulk Density	0.740 g/cc	0.0267 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.26 %	0.26 %	ASTM D570
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	per ATM D955. Post shrinkage is 0.26% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	80	80	ASTM D785
Tensile Strength, Ultimate	57.4 MPa	8330 psi	ASTM D638
Elongation at Break	0.82 %	0.82 %	ASTM D638
Tensile Modulus	9.54 GPa	1380 ksi	ASTM D638
Flexural Yield Strength	89.8 MPa	13000 psi	ASTM D790
Flexural Modulus	8.44 GPa	1220 ksi	ASTM D790
Compressive Yield Strength	192.1 MPa	27860 psi	ASTM D695
Charpy Impact, Notched	0.170 J/cm ²	0.809 ft-lb/in ²	ASTM D256
Impact	94	94	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	201 °C	394 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	174 °C	345 °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	2.12e+11 ohm-cm	2.12e+11 ohm-cm	ASTM D257
Dielectric Constant	5.2	5.2	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	7.40 kV/mm	188 kV/in	Step by Step; ASTM D149
	10.9 kV/mm	277 kV/in	Short Time; ASTM D149
Dissipation Factor	0.066	0.066	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	160 sec	160 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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