

Plenco 7300 Phenolic, Nodular, Injection Molded (discontinued **)

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

Material Notes:

Two-Stage Phenolic. PLENCO 07300 is an organic fiber reinforced phenolic molding compound offering improved mechanical strength and excellent cosmetic properties. UL recognized under component file E40654. 07300 is available in black. Information supplied by Plenco

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7300-Phenolic-Nodular-Injection-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
Apparent Bulk Density	0.630 g/cc	0.0228 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.25 %	0.25 %	ASTM D570
Linear Mold Shrinkage	0.0075 cm/cm	0.0075 in/in	per ATM D955. Post shrinkage is 0.4% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	90	90	ASTM D785
Tensile Strength, Ultimate	61.8 MPa	8960 psi	ASTM D638
Elongation at Break	1.32 %	1.32 %	ASTM D638
Tensile Modulus	8.97 GPa	1300 ksi	ASTM D638
Flexural Yield Strength	87.1 MPa	12600 psi	ASTM D790
Flexural Modulus	7.38 GPa	1070 ksi	ASTM D790
Compressive Yield Strength	210.6 MPa	30550 psi	ASTM D695
Charpy Impact, Notched	0.210 J/cm ²	0.999 ft-lb/in ²	ASTM D256
Impact	122	122	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	198 °C	388 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	161 °C	322 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.71e+11 ohm-cm	1.71e+11 ohm-cm	ASTM D257
Dielectric Constant	5.0	5.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	12.6 kV/mm	320 kV/in	Short Time; ASTM D149
Dissipation Factor	0.045	0.045	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	100 sec	100 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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