

Plenco 7300 Phenolic, Nodular, Transfer 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-Transfer-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
Apparent Bulk Density	0.620 g/cc	0.0224 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.24 %	0.24 %	ASTM D570
Linear Mold Shrinkage	0.0050 cm/cm	0.0050 in/in	per ATM D955. Post shrinkage is 0.18% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	89	89	ASTM D785
Tensile Strength, Ultimate	53.4 MPa	7750 psi	ASTM D638
Elongation at Break	1.01 %	1.01 %	ASTM D638
Tensile Modulus	6.83 GPa	991 ksi	ASTM D638
Flexural Yield Strength	89.0 MPa	12900 psi	ASTM D790
Flexural Modulus	8.22 GPa	1190 ksi	ASTM D790
Compressive Yield Strength	206.2 MPa	29910 psi	ASTM D695
Izod Impact, Notched	0.230 J/cm	0.431 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.220 J/cm ²	1.05 ft-lb/in ²	ASTM D256
Impact	130	130	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 µm/m-°C	32.2 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	193 °C	379 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	177 °C Metric	351 °F English	ASTM D648 Comments
Flammability, UL94	HB @Thickness 1.47 mm	HB @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.44e+11 ohm-cm	2.44e+11 ohm-cm	ASTM D257
Dielectric Constant	5.4 @Frequency 1e+6 Hz	5.4 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	13.2 kV/mm	335 kV/in	Short Time; ASTM D149
Dissipation Factor	0.045 @Frequency 1e+6 Hz	0.045 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	80 sec	80 sec	ASTM D495
Comparative Tracking Index	150 V	150 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