

Plenco 7466 Phenolic, Granular, Transfer Molded (discontinued **)

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Mineral/Flock Filled

Material Notes:

Two-Stage Phenolic. PLENCO 07466 is a flock cotton and mineral filled phenolic molding compound offering excellent heat resistance and dimensional stability. UL recognized under component file E40654. 07466 is available in black. Information supplied by Plenco

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7466-Phenolic-Granular-Transfer-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
Apparent Bulk Density	0.620 g/cc	0.0224 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.11 %	0.11 %	ASTM D570
Linear Mold Shrinkage	0.0043 cm/cm	0.0043 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	86	86	ASTM D785
Tensile Strength, Ultimate	58.1 MPa	8430 psi	ASTM D638
Elongation at Break	0.84 %	0.84 %	ASTM D638
Tensile Modulus	8.61 GPa	1250 ksi	ASTM D638
Flexural Yield Strength	88.7 MPa	12900 psi	ASTM D790
Flexural Modulus	9.47 GPa	1370 ksi	ASTM D790
Compressive Yield Strength	203 MPa	29400 psi	ASTM D695
Izod Impact, Notched	0.240 J/cm	0.450 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.220 J/cm ²	1.05 ft-lb/in ²	ASTM D256

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)	193 °C	379 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+11 ohm-cm	2.00e+11 ohm-cm	ASTM D257
Dielectric Constant	5.8 @Frequency 1e+6 Hz	5.8 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	11.9 kV/mm	302 kV/in	Short Time; ASTM D149
Dissipation Factor	0.061 @Frequency 1e+6 Hz	0.061 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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