

Plenco 7507 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 07507 is an organic reinforced phenolic molding compound offering improved dimensional stability under humid conditions. 07507 offers excellent resistance to degradation from detergent solutions at elevated temperature. UL recognized under component file E40654. 07507 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7507-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.610 g/cc	0.0220 lb/in ³	ASTM D1895
Density	1.53 g/cc	0.0553 lb/in ³	ASTM D792
Water Absorption	0.37 %	0.37 %	ASTM D570
Linear Mold Shrinkage	0.00233 cm/cm	0.00233 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	75	75	ASTM D785
Tensile Strength, Ultimate	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Tensile Modulus	8.00 GPa	1160 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	8.60 GPa	1250 ksi	ASTM D790
Compressive Strength	179 MPa	26000 psi	ASTM D695
Izod Impact, Notched	0.209 J/cm	0.392 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.220 J/cm ²	1.05 ft-lb/in ²	ASTM D256
Impact	125	125	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	203 °C	397 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	ASTM D648
Flammability, UL94	V-1	V-1	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Shrinkage	0.28 %	0.28 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.70e+12 ohm-cm	1.70e+12 ohm-cm	ASTM D247
Dielectric Constant	6.4	6.4	ASTM D150
Dielectric Strength	10.9 kV/mm	277 kV/in	Short Time; ASTM D149
Dissipation Factor	0.070	0.070	ASTM D150
Arc Resistance	179 sec	179 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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