

Plenco 7500 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 07500 is an organic reinforced phenolic molding compound, offering improved mechanical strength and excellent cosmetic characteristics. Type ASTM 5948 CFG and UL recognized under component file E40654. 07500 is available in black or red color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7500-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.520 g/cc	0.0188 lb/in ³	ASTM D1895
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.36 %	0.36 %	ASTM D570
Linear Mold Shrinkage	0.0109 cm/cm	0.0109 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	87	87	ASTM D785
Tensile Strength, Ultimate	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	0.87 %	0.87 %	ASTM D638
Tensile Modulus	8.10 GPa	1170 ksi	ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	7.00 GPa	1020 ksi	ASTM D790
Compressive Strength	212 MPa	30700 psi	ASTM D695
Izod Impact, Notched	0.193 J/cm	0.362 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.186 J/cm ²	0.885 ft-lb/in ²	ASTM D256
Impact	115	115	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	23.9 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Maximum Service Temperature, Air	197 °C	387 °F	Heat Resistance; ASTM D570D

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	151 °C Metric	304 °F English	ASTM D247 Comments
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Shrinkage	0.35 %	0.35 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+13 ohm-cm	5.00e+13 ohm-cm	ASTM D247
Dielectric Constant	4.3	4.3	ASTM D150
Dielectric Strength	11.3 kV/mm	287 kV/in	Short Time; ASTM D149
Dissipation Factor	0.044	0.044	ASTM D150
Arc Resistance	120 sec	120 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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