

Plenco 7500 Phenolic, Granular, Transfer 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-Transfer-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	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0069 cm/cm	0.0069 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	90	90	ASTM D785
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	0.78 %	0.78 %	ASTM D638
Tensile Modulus	7.70 GPa	1120 ksi	ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ASTM D790
Flexural Modulus	7.40 GPa	1070 ksi	ASTM D790
Compressive Strength	218 MPa	31600 psi	ASTM D695
Poissons Ratio	0.36	0.36	ASTM D638
Shear Modulus	2.83 GPa	410 ksi	Calculated
Izod Impact, Notched	0.204 J/cm	0.382 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.206 J/cm ²	0.980 ft-lb/in ²	ASTM D256
Impact	119	119	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 μm/m-°C	32.2 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.360 W/m-K @Temperature 100 °C	2.50 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	200 °C	392 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	166 °C	331 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	24.7 %	24.7 %	ASTM D2863
Shrinkage	0.253 %	0.253 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.90e+11 ohm-cm	3.90e+11 ohm-cm	ASTM D247
Dielectric Constant	4.8	4.8	ASTM D150
Dielectric Strength	11.1 kV/mm	282 kV/in	Short Time; ASTM D149
Dissipation Factor	0.051	0.051	ASTM D150
Arc Resistance	128 sec	128 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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