

Plenco 7507 Phenolic, Granular, Injection 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-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in ³	ASTM D1895
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
Water Absorption	0.44 %	0.44 %	ASTM D570
Linear Mold Shrinkage	0.0063 cm/cm	0.0063 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	57	57	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	1.12 %	1.12 %	ASTM D638
Tensile Modulus	7.90 GPa	1150 ksi	ASTM D638
Flexural Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	7.20 GPa	1040 ksi	ASTM D790
Compressive Strength	157 MPa	22800 psi	ASTM D695
Poissons Ratio	0.33	0.33	ASTM D638
Shear Modulus	2.97 GPa	431 ksi	Calculated
Izod Impact, Notched	0.179 J/cm	0.335 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.196 J/cm ²	0.933 ft-lb/in ²	ASTM D256
Impact	125	125	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	37.0 µm/m-°C	20.6 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.460 W/m-K @Temperature 100 °C	3.19 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	204 °C	399 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	186 °C	367 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	
Oxygen Index	31 %	31 %	ASTM D2863
Shrinkage	0.42 %	0.42 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.30e+11 ohm-cm	8.30e+11 ohm-cm	ASTM D247
Dielectric Constant	7.0	7.0	ASTM D150
Dielectric Strength	8.00 kV/mm	203 kV/in	Short Time; ASTM D149
Dissipation Factor	0.172	0.172	ASTM D150
Arc Resistance	177 sec	177 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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