

Plenco 7307 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 07307 is an organic fiber reinforced phenolic molding compound, offering improved mechanical strength properties. Type ASTM 5948 CFG, and UL recognized under component file E40654. 07307 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7307-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.570 g/cc	0.0206 lb/in ³	ASTM D1895
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	0.41 %	0.41 %	ASTM D570
Linear Mold Shrinkage	0.0066 cm/cm	0.0066 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	91	91	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	0.76 %	0.76 %	ASTM D638
Tensile Modulus	8.10 GPa	1170 ksi	ASTM D638
Flexural Strength	78.0 MPa	11300 psi	ASTM D790
Flexural Modulus	7.60 GPa	1100 ksi	ASTM D790
Compressive Strength	209 MPa	30300 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	3.00 GPa	435 ksi	Calculated
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.199 J/cm ²	0.947 ft-lb/in ²	ASTM D256
Impact	85	85	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	193 °C	379 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	174 °C	345 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	25.8 %	25.8 %	ASTM D2863
Shrinkage	0.26 %	0.26 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.90e+11 ohm-cm	4.90e+11 ohm-cm	ASTM D247
Dielectric Constant	4.6	4.6	ASTM D150
Dielectric Strength	11.1 kV/mm	282 kV/in	Short Time; ASTM D149
Dissipation Factor	0.048	0.048	ASTM D150
Arc Resistance	130 sec	130 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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