

Plenco 6527 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 06527 is a woodflour and mineral filled resole phenolic molding compound. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6527-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.590 g/cc	0.0213 lb/in ³	ASTM D1895
Density	1.57 g/cc	0.0567 lb/in ³	ASTM D792
Water Absorption	0.35 %	0.35 %	ASTM D570
Linear Mold Shrinkage	0.00266 cm/cm	0.00266 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	56	56	ASTM D785
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	0.77 %	0.77 %	ASTM D638
Tensile Modulus	10.6 GPa	1540 ksi	ASTM D638
Flexural Strength	83.0 MPa	12000 psi	ASTM D790
Flexural Modulus	8.40 GPa	1220 ksi	ASTM D790
Compressive Strength	143 MPa	20700 psi	ASTM D695
Izod Impact, Notched	0.256 J/cm	0.480 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.243 J/cm ²	1.16 ft-lb/in ²	ASTM D256
Impact	157	157	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	188 °C	370 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	421 °F	ASTM D648
Oxygen Index	34 %	34 %	ASTM D2863
Shrinkage	0.26 %	0.26 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+12 ohm-cm	1.20e+12 ohm-cm	ASTM D247
Dielectric Constant	6.3	6.3	ASTM D150
Dielectric Strength	9.30 kV/mm	236 kV/in	Short Time; ASTM D149
Dissipation Factor	0.069	0.069	ASTM D150
Arc Resistance	162 sec	162 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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