

Plenco 7523 Phenolic, Granular, Transfer Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic; Wood and Flock filled; Molded

Material Notes:

PLENCO 07523 is a woodflour and cotton flock filled novolac phenolic molding compound, formulated for high impact industrial uses. UL recognized under component file E40654. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7523-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.550 g/cc	0.0199 lb/in ³	ASTM D1895
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.40 %	0.40 %	ASTM D570
Linear Mold Shrinkage	0.0079 cm/cm	0.0079 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	84	84	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	0.82 %	0.82 %	ASTM D638
Tensile Modulus	7.50 GPa	1090 ksi	ASTM D638
Flexural Strength	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	6.80 GPa	986 ksi	ASTM D790
Compressive Strength	194 MPa	28100 psi	ASTM D695
Izod Impact, Notched	0.192 J/cm	0.360 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.199 J/cm ²	0.947 ft-lb/in ²	ASTM D256
Impact	118	118	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 µm/m-°C	33.3 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Maximum Service Temperature, Air	200 °C	392 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	158 °C	316 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	0.267 %	0.267 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.80e+11 ohm-cm	2.80e+11 ohm-cm	ASTM D247
Dielectric Constant	4.9	4.9	ASTM D150
Dielectric Strength	10.9 kV/mm	277 kV/in	Short Time; ASTM D149
Dissipation Factor	0.054	0.054	ASTM D150
Arc Resistance	133 sec	133 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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