

Plenco 3557 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 03557 is a woodflour and mineral filled phenolic molding compound offering excellent dielectric strength values at elevated temperatures while maintaining mechanical strength properties. UL recognized under component file E40654. 03557 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-3557-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.630 g/cc	0.0228 lb/in ³	ASTM D1895
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Water Absorption	0.54 %	0.54 %	ASTM D570
Linear Mold Shrinkage	0.0064 cm/cm	0.0064 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	76	76	ASTM D785
Tensile Strength, Ultimate	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	0.88 %	0.88 %	ASTM D638
Tensile Modulus	7.50 GPa	1090 ksi	ASTM D638
Flexural Strength	96.0 MPa	13900 psi	ASTM D790
Flexural Modulus	7.10 GPa	1030 ksi	ASTM D790
Compressive Strength	198 MPa	28700 psi	ASTM D695
Poissons Ratio	0.36	0.36	ASTM D638
Shear Modulus	2.76 GPa	400 ksi	Calculated
Izod Impact, Notched	0.188 J/cm	0.352 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.196 J/cm ²	0.933 ft-lb/in ²	ASTM D256
Impact	92	92	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	182 °C	360 °F	Heat Resistance; ASTM D570D

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	173 °C Metric	343 °F English	ASTM D648 Comments
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Shrinkage	0.43 %	0.43 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+12 ohm-cm	8.00e+12 ohm-cm	ASTM D247
Dielectric Constant	5.8	5.8	ASTM D150
Dielectric Strength	7.50 kV/mm	191 kV/in	Step by Step; ASTM D149
	10.3 kV/mm	262 kV/in	Short Time; ASTM D149
Dissipation Factor	0.053	0.053	ASTM D150
Arc Resistance	131 sec	131 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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