

Plenco 2000 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 02000 is a versatile general purpose, organic filled phenolic molding compound, offering optimum cure characteristics and an excellent balance of molding properties. UL recognized under component file E40654. 02000 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2000-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in ³	ASTM D1895
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Water Absorption	0.32 %	0.32 %	ASTM D570
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	91	91	ASTM D785
Tensile Strength, Ultimate	54.0 MPa	7830 psi	ASTM D638
Elongation at Break	0.67 %	0.67 %	ASTM D638
Tensile Modulus	7.80 GPa	1130 ksi	ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ASTM D790
Flexural Modulus	7.10 GPa	1030 ksi	ASTM D790
Compressive Strength	214 MPa	31000 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	2.89 GPa	419 ksi	Calculated
Izod Impact, Notched	0.181 J/cm	0.339 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.195 J/cm ²	0.928 ft-lb/in ²	ASTM D256
Impact	98	98	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	197 °C	387 °F	Heat Resistance; ASTM D570D

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	177 °C Metric	351 °F English	ASTM D648 Comments
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	
Oxygen Index	27 %	27 %	ASTM D2863
Shrinkage	0.21 %	0.21 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.70e+11 ohm-cm	2.70e+11 ohm-cm	ASTM D247
Dielectric Constant	6.1	6.1	ASTM D150
Dielectric Strength	8.60 kV/mm	218 kV/in	Short Time; ASTM D149
Dissipation Factor	0.065	0.065	ASTM D150
Arc Resistance	117 sec	117 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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