

Plenco 7476 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 07476 is a cotton flock filled resole phenolic molding compound, with improved physical strength, crack resistance, and is resistant to soap and detergent solutions at elevated temperatures. UL recognized under component file E40654. 07476 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7476-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.520 g/cc	0.0188 lb/in ³	ASTM D1895
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	0.42 %	0.42 %	ASTM D570
Linear Mold Shrinkage	0.0058 cm/cm	0.0058 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	77	77	ASTM D785
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	1.0 %	1.0 %	ASTM D638
Tensile Modulus	6.90 GPa	1000 ksi	ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ASTM D790
Flexural Modulus	7.00 GPa	1020 ksi	ASTM D790
Compressive Strength	189 MPa	27400 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	2.56 GPa	371 ksi	Calculated
Izod Impact, Notched	0.227 J/cm	0.425 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.264 J/cm ²	1.26 ft-lb/in ²	ASTM D256
Impact	169	169	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	44.0 μm/m-°C	24.4 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	194 °C	381 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	196 °C	385 °F	ASTM D648
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	2.70e+11 ohm-cm	2.70e+11 ohm-cm	ASTM D247
Dielectric Constant	6.6	6.6	ASTM D150
Dielectric Strength	7.90 kV/mm	201 kV/in	Short Time; ASTM D149
Dissipation Factor	0.076	0.076	ASTM D150
Arc Resistance	159 sec	159 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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