

Plenco 7080 Phenolic, Nodular, Compression Molded

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

Material Notes:

PLENCO 07080 is an organic fiber reinforced phenolic molding compound, offering improved mechanical strength properties along with outstanding resistance to cracking and degradation from soap and detergent solutions at elevated temperatures. UL recognized under component file E40654. 07080 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7080-Phenolic-Nodular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.540 g/cc	0.0195 lb/in ³	ASTM D1895
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.48 %	0.48 %	ASTM D570
Linear Mold Shrinkage	0.0036 cm/cm	0.0036 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	68	68	ASTM D785
Tensile Strength, Ultimate	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	0.85 %	0.85 %	ASTM D638
Tensile Modulus	7.40 GPa	1070 ksi	ASTM D638
Flexural Strength	77.0 MPa	11200 psi	ASTM D790
Flexural Modulus	6.50 GPa	943 ksi	ASTM D790
Compressive Strength	158 MPa	22900 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	2.74 GPa	397 ksi	Calculated
Izod Impact, Notched	0.264 J/cm	0.495 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ASTM D256
Impact	215	215	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 μm/m-°C	30.0 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.420 W/m-K @Temperature 100 °C	2.91 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	188 °C	370 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	201 °C	394 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 5.10 mm	V-0 @Thickness 0.201 in	
Oxygen Index	28.5 %	28.5 %	ASTM D2863
Shrinkage	0.42 %	0.42 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.60e+12 ohm-cm	2.60e+12 ohm-cm	ASTM D247
Dielectric Constant	6.8	6.8	ASTM D150
Dielectric Strength	9.70 kV/mm	246 kV/in	Short Time; ASTM D149
Dissipation Factor	0.069	0.069	ASTM D150
Arc Resistance	140 sec	140 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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