

Plenco 4309 Phenolic, Nodular, Injection Molded

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

Material Notes:

PLENCO 04309 is a heat resistant, glass reinforced phenolic molding compound offering improved mechanical strength and electrical strength properties. UL recognized under component file E40654. 04309 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4309-Phenolic-Nodular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.640 g/cc	0.0231 lb/in ³	ASTM D1895
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Water Absorption	0.188 %	0.188 %	ASTM D570
Linear Mold Shrinkage	0.0067 cm/cm	0.0067 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	80	80	ASTM D785
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	0.61 %	0.61 %	ASTM D638
Tensile Modulus	9.30 GPa	1350 ksi	ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	8.60 GPa	1250 ksi	ASTM D790
Compressive Strength	165 MPa	23900 psi	ASTM D695
Poissons Ratio	0.34	0.34	ASTM D638
Shear Modulus	3.47 GPa	503 ksi	Calculated
Izod Impact, Notched	0.209 J/cm	0.392 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.191 J/cm ²	0.909 ft-lb/in ²	ASTM D256
Impact	139	139	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	48.0 µm/m-°C	26.7 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	

Thermal Properties Thermal Conductivity	Metric 0.528 W/m-K	English 2.17 BTU-in/hr-ft ² -°F	Comments ASTM E1461
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	203 °C	397 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	164 °C	327 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	31 %	31 %	ASTM D2863
Shrinkage	0.186 %	0.186 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.50e+12 ohm-cm	6.50e+12 ohm-cm	ASTM D247
Dielectric Constant	6.3	6.3	ASTM D150
Dielectric Strength	7.90 kV/mm	201 kV/in	Short Time; ASTM D149
Dissipation Factor	0.060	0.060	ASTM D150
Arc Resistance	155 sec	155 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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