

Plenco 4304 Phenolic, Nodular, Transfer Molded

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

Material Notes:

PLENCO 04304 is a heat resistant, mineral filled phenolic molding compound offering improved mechanical strength properties along with excellent dimensional stability. UL recognized under component file E40654. 04304 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4304-Phenolic-Nodular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.680 g/cc	0.0246 lb/in ³	ASTM D1895
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Water Absorption	0.146 %	0.146 %	ASTM D570
Linear Mold Shrinkage	0.0042 cm/cm	0.0042 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	73	73	ASTM D785
Tensile Strength, Ultimate	47.0 MPa	6820 psi	ASTM D638
Elongation at Break	0.68 %	0.68 %	ASTM D638
Tensile Modulus	9.10 GPa	1320 ksi	ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	9.20 GPa	1330 ksi	ASTM D790
Compressive Strength	157 MPa	22800 psi	ASTM D695
Poissons Ratio	0.33	0.33	ASTM D638
Shear Modulus	3.42 GPa	496 ksi	Calculated
Izod Impact, Notched	0.243 J/cm	0.455 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.247 J/cm ²	1.18 ft-lb/in ²	ASTM D256
Impact	138	138	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	51.0 µm/m-°C	28.3 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	

Thermal Properties Thermal Conductivity	Metric 0.578 W/m-K	English 3.95 BTU-in/hr-ft ² -°F	Comments ASTM E1461
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	196 °C	385 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	
Oxygen Index	32 %	32 %	ASTM D2863
Shrinkage	0.171 %	0.171 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.10e+11 ohm-cm	3.10e+11 ohm-cm	ASTM D247
Dielectric Constant	5.5	5.5	ASTM D150
Dielectric Strength	11.6 kV/mm	295 kV/in	Short Time; ASTM D149
Dissipation Factor	0.054	0.054	ASTM D150
Arc Resistance	184 sec	184 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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