

Plenco 2424 Phenolic, Granular, Injection Molded (discontinued **)

Category : Polymer , Thermoset , Phenolic , Phenolic; Unreinforced; Molded

Material Notes:

Two-stage Phenolic. PLENCO 02424 is a black, two stage, general purpose phenolic molding compound. It has a good balance of properties for a general purpose type material. It is used in electrical applications and can be molded by compression, transfer, or injection. Information supplied by Plenco

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2424-Phenolic-Granular-Injection-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Apparent Bulk Density	0.640 g/cc	0.0231 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.31 %	0.31 %	ASTM D570
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	per ATM D955. Post shrinkage is 0.29% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	86	86	ASTM D785
Tensile Strength, Ultimate	57.9 MPa	8400 psi	ASTM D638
Elongation at Break	0.77 %	0.77 %	ASTM D638
Tensile Modulus	8.45 GPa	1230 ksi	ASTM D638
Flexural Yield Strength	81.1 MPa	11800 psi	ASTM D790
Flexural Modulus	7.53 GPa	1090 ksi	ASTM D790
Compressive Yield Strength	199.7 MPa	28960 psi	ASTM D695
Charpy Impact, Notched	0.190 J/cm ²	0.904 ft-lb/in ²	ASTM D256
Impact	102	102	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 6.10 mm	V-1 @Thickness 0.240 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.33e+11 ohm-cm	5.33e+11 ohm-cm	ASTM D257
Dielectric Constant	5.3	5.3	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	9.00 kV/mm	229 kV/in	Step by Step; ASTM D149
	10.4 kV/mm	264 kV/in	Short Time; ASTM D149
Dissipation Factor	0.060	0.060	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	160 sec	160 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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