

Plenco 4759 Phenolic, Granular, Injection Molded (discontinued **)

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Heat Resistant Grade, Filled

Material Notes:

Two-stage Phenolic. PLENCO 04759 is a black, two stage, medium heat resistant phenolic molding compound. It has excellent molded finish and possesses good electrical properties. It is used in appliance and electrical applications. Information supplied by Plenco

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4759-Phenolic-Granular-Injection-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
Apparent Bulk Density	0.700 g/cc	0.0253 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0066 cm/cm	0.0066 in/in	per ATM D955. Post shrinkage is 0.26% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	82	82	ASTM D785
Tensile Strength, Ultimate	60.5 MPa	8770 psi	ASTM D638
Elongation at Break	0.86 %	0.86 %	ASTM D638
Tensile Modulus	9.98 GPa	1450 ksi	ASTM D638
Flexural Yield Strength	87.3 MPa	12700 psi	ASTM D790
Flexural Modulus	8.46 GPa	1230 ksi	ASTM D790
Compressive Yield Strength	194.6 MPa	28220 psi	ASTM D695
Charpy Impact, Notched	0.210 J/cm ²	0.999 ft-lb/in ²	ASTM D256
Impact	127	127	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	201 °C	394 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	176 °C	349 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 3.05 mm	V-1 @Thickness 0.120 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	7.06e+11 ohm-cm	7.06e+11 ohm-cm	ASTM D257
Dielectric Constant	5.3	5.3	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	9.30 kV/mm	236 kV/in	Step by Step; ASTM D149
	10.9 kV/mm	277 kV/in	Short Time; ASTM D149
Dissipation Factor	0.056	0.056	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	150 sec	150 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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