

Plaslok 504 Black (INJ) Heat Resistant Mineral/Cellulose Filled Phenolic Molding Compound (discontinued **)&

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

Material Notes:

Plaslok Corporation was purchased by Plastics Engineering Company (maker of Plenco brand materials) in March 2000. The Plaslok name is no longer in use. Plaslok 504 is a two-stage, mineral and cellulose-filled phenolic molding compound having better impact and heat resistance than general purpose molding compounds. Since it also has good electrical properties, it has found use in a wide variety of wiring device applications. Data provided by Plaslok Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaslok-504-Black-INJ-Heat-Resistant-MineralCellulose-Filled-Phenolic-Molding-Compound-nbspdiscontinued-l.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Apparent Bulk Density	0.600 g/cc	0.0217 lb/in ³	ASTM D1895
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	0.012 cm/cm	0.012 in/in	Injection; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Flexural Yield Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Compressive Yield Strength	193 MPa	28000 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	166 °C	331 °F	ASTM D648
UL RTI, Electrical	150 °C @Thickness 1.47 mm	302 °F @Thickness 0.0579 in	
UL RTI, Mechanical with Impact	150 °C @Thickness 1.47 mm	302 °F @Thickness 0.0579 in	
UL RTI, Mechanical without Impact	150 °C @Thickness 1.47 mm	302 °F @Thickness 0.0579 in	
Flammability, UL94	V-0	V-0	1.47 mm

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	5.0	5.0	1MHz; ASTM D150
	7.0	7.0	60 Hz; ASTM D150
Dielectric Strength	15.7 kV/mm	399 kV/in	ASTM D149
Dissipation Factor	0.040	0.040	1 MHz; ASTM D150
	0.090	0.090	60 Hz; ASTM D150
Comparative Tracking Index	180 V	180 V	UL 746

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