

## Plenco 501 Black Electrical Grade Mineral/Flock Filled Phenolic Molding Compound (discontinued \*\*)

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Electrical Grade, Filled

### Material Notes:

Plaslok 501 is a two-stage, mineral and flock-filled phenolic molding compound designed for use in heat resistant and electrical applications. It is designed for elevated temperature exposure for extended periods of time. It exhibits good dimensional stability and flame resistance. Data provided by Plaslok Corporation. Plaslok Corporation was purchased by Plastics Engineering Company in March 2000. The Plaslok name is no longer used on any products.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-501-Black-Electrical-Grade-MineralFlock-Filled-Phenolic-Molding-Compound-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-501-Black-Electrical-Grade-MineralFlock-Filled-Phenolic-Molding-Compound-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.700 g/cc	0.0253 lb/in <sup>3</sup>	ASTM D1895
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	Compression; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ASTM D638
Flexural Yield Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Compressive Yield Strength	221 MPa	32100 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	177 °C	351 °F	ASTM D648
UL RTI, Electrical	150 °C @Thickness 1.57 mm	302 °F @Thickness 0.0618 in	
UL RTI, Mechanical with Impact	150 °C @Thickness 1.57 mm	302 °F @Thickness 0.0618 in	
UL RTI, Mechanical without Impact	150 °C @Thickness 1.57 mm	302 °F @Thickness 0.0618 in	
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.57 mm Metric	@Thickness 0.0618 in English	Comments
	V-0	V-0	
	@Thickness 1.57 mm	@Thickness 0.0618 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	4.8	4.8	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	6.5	6.5	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	13.0 kV/mm	330 kV/in	ASTM D149
Dissipation Factor	0.030	0.030	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.12	0.12	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Comparative Tracking Index	160 V	160 V	UL 746

## Contact Songhan Plastic Technology Co.,Ltd.

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