

Plenco 5303 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 5303 is a two-stage, mineral and flock-filled phenolic molding compound designed for use in appliance, automotive and electrical applications. It can be molded by compression, transfer or injection processes. 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-5303-Black-Electrical-Grade-MineralFlock-Filled-Phenolic-Molding-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Apparent Bulk Density	0.650 g/cc	0.0235 lb/in ³	ASTM D1895
Water Absorption	0.18 %	0.18 %	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	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	9.70 GPa	1410 ksi	ASTM D790
Compressive Yield Strength	206 MPa	29900 psi	ASTM D695

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	182 °C	360 °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 @Thickness 1.57 mm	V-0 @Thickness 0.0618 in	

Thermal Properties	Metric	English	Comments
	@Thickness 1.57 mm	@Thickness 0.0618 in	
Oxygen Index	31.4 %	31.4 %	ASTM D2863

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	
	8.0	8.0	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	14.8 kV/mm	376 kV/in	ASTM D149
Dissipation Factor	0.040	0.040	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.15	0.15	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Comparative Tracking Index	185 V	185 V	UL 746

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