

Plaslok 506 Black Heat Resistant Mineral 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 506 is a two-stage, mineral-filled phenolic molding compound. It is formulated for automotive ashtrays and for appliance applications such as utensil handles receiving repeated exposure to 500°F. Plaslok 506 meets the following automotive specifications: Chrysler: MS-PP7-6, MS-DA43; Toyota: TSM6504AG-1; General Motors: CPC CMP PF002, APOPS 2401-01; Ford: ESB-M3D-118D, FMVSS 302. Data provided by Plaslok Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaslok-506-Black-Heat-Resistant-Mineral-Filled-Phenolic-Molding-Compound-nbspdiscontinued.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Apparent Bulk Density	0.700 g/cc	0.0253 lb/in ³	ASTM D1895
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	Compression; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D638
Flexural Yield Strength	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	10.4 GPa	1510 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, UL 94 Thermal Properties	V-0 Metric	V-0 English	1.57 mm Comments
	V-0	V-0	1.57 mm

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	6.0	6.0	1MHz; ASTM D150
	14	14	60 Hz; ASTM D150
Dielectric Strength	11.8 kV/mm	300 kV/in	ASTM D149
Dissipation Factor	0.060	0.060	1 MHz; ASTM D150
	0.17	0.17	60 Hz; ASTM D150
Comparative Tracking Index	230 V	230 V	UL 746

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