

Plenco 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 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 302Data 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-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	

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 1.57 mm	@Thickness 0.0618 in	
	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	6.0	6.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	14	14	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	11.8 kV/mm	300 kV/in	ASTM D149
Dissipation Factor	0.060	0.060	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.17	0.17	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Comparative Tracking Index	230 V	230 V	UL 746

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