

## Plenco 5440 Black General Purpose Phenolic Molding Compound (discontinued \*\*)

Category : Polymer , Thermoset , Phenolic

### Material Notes:

Plaslok 5440 is the replacement material for the former Union Carbide BMRS-5440. It is a two-stage, phenolic molding compound that has been successfully formulated to accommodate a very wide range of molding situations. Because of its balance of physical and electrical properties it has found use in a variety of applications including knobs, circuit breaker cases and wiring devices. 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-5440-Black-General-Purpose-Phenolic-Molding-Compound-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-5440-Black-General-Purpose-Phenolic-Molding-Compound-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	ASTM D1895
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	Compression; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ASTM D638
Flexural Yield Strength	59.0 MPa	8560 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 ksi	ASTM D790
Compressive Yield Strength	207 MPa	30000 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 1.47 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	
	V-0	V-0	

Thermal Properties	Metric	English	Comments
	V-0	V-0	
	@Thickness 3.05 mm	@Thickness 0.120 in	
Oxygen Index	28.2 %	28.2 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.00e+12 ohm-cm	2.00e+12 ohm-cm	ASTM D257
Dielectric Constant	5.4	5.4	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	9.0	9.0	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	13.0 kV/mm	330 kV/in	ASTM D149
Dissipation Factor	0.050	0.050	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.20	0.20	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Comparative Tracking Index	210 V	210 V	UL 746

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