

Plaslok 7021 Black Impact Grade Phenolic Molding Compound (discontinued **)

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Impact 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 7021 is the replacement material for the former Union Carbide BMRS-7021. It is a two-stage, impact grade phenolic molding compound suitable for compression, transfer or injection molding of switchgear parts, or where mechanical assembly requires better impact strength. Data provided by Plaslok Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaslok-7021-Black-Impact-Grade-Phenolic-Molding-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Apparent Bulk Density	0.480 g/cc	0.0173 lb/in ³	ASTM D1895
Water Absorption	0.50 %	0.50 %	ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	Compression; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D638
Flexural Yield Strength	74.0 MPa	10700 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 ksi	ASTM D790
Compressive Yield Strength	228 MPa	33100 psi	ASTM D695
Izod Impact, Notched	0.240 J/cm	0.450 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	171 °C	340 °F	ASTM D648
UL RTI, Electrical	150 °C	302 °F	1.57 mm
UL RTI, Mechanical with Impact	150 °C	302 °F	1.57 mm
UL RTI, Mechanical without Impact	150 °C	302 °F	1.57 mm
Flammability, UL94	V-0	V-0	3.18 mm
	V-0	V-0	3.18mm

Electrical Properties	Metric	English	Comments
Electrical Resistivity	6.00e+9 ohm-cm	6.00e+9 ohm-cm	ASTM D257
Dielectric Constant	4.5	4.5	1MHz; ASTM D150
	6.0	6.0	60 Hz; ASTM D150
Dielectric Strength	11.8 kV/mm	300 kV/in	ASTM D149
Dissipation Factor	0.040	0.040	1 MHz; ASTM D150
	0.11	0.11	60 Hz; ASTM D150
Comparative Tracking Index	125 V	125 V	UL 746

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