

## Plenco 7021 Black Impact Grade Phenolic Molding Compound (discontinued \*\*)

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Impact Grade, Filled

### Material Notes:

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. 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-7021-Black-Impact-Grade-Phenolic-Molding-Compound-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-7021-Black-Impact-Grade-Phenolic-Molding-Compound-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.480 g/cc	0.0173 lb/in <sup>3</sup>	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 @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	V-0	

Thermal Properties	@Thickness 3.18 mm Metric	@Thickness 0.125 in English	Comments
	V-0	V-0	
	@Thickness 3.18 mm	@Thickness 0.125 in	

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	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	6.0	6.0	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	11.8 kV/mm	300 kV/in	ASTM D149
Dissipation Factor	0.040	0.040	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	0.11	0.11	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Comparative Tracking Index	125 V	125 V	UL 746

## Contact Songhan Plastic Technology Co.,Ltd.

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