

## Plenco 5000 Black General Purpose Woodflour Filled Phenolic Molding Compound (discontinued \*\*)

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Woodflour Filled

### Material Notes:

Plaslok 5000 is the replacement material for the former Union Carbide BMM-5000. It is a two-stage, woodflour-filled phenolic molding compound having versatile molding performance and preheating characteristics, fast cure, low specific gravity, excellent molded finish and superior hot rigidity. 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-5000-Black-General-Purpose-Woodflour-Filled-Phenolic-Molding-Compound-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-5000-Black-General-Purpose-Woodflour-Filled-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	0.620 g/cc	0.0224 lb/in <sup>3</sup>	ASTM D1895
Water Absorption	0.45 %	0.45 %	ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	Compression; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Flexural Yield Strength	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 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)	182 °C	360 °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	
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 3.05 mm Metric	@Thickness 0.120 in English	Comments
	HB	HB	
	@Thickness 3.05 mm	@Thickness 0.120 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	4.7	4.7	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	5.8	5.8	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	11.0 kV/mm	279 kV/in	ASTM D149
Dissipation Factor	0.030	0.030	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.060	0.060	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Comparative Tracking Index	140 V	140 V	UL 746

## Contact Songhan Plastic Technology Co.,Ltd.

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