

Plaslok 301 Black Impact Grade Woodflour/Flock Filled Phenolic Molding Compound (discontinued **)

Category : Polymer , Thermoset , Filled/Reinforced 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 301 is a two-stage, woodflour and flock-filled phenolic molding compound. It has broad molding latitude combined with good electrical properties and improved impact strength. It is particularly suited for mechanical parts with thin sections that require wheelabrating, staking or pulling of inserts. Data provided by Plaslok Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaslok-301-Black-Impact-Grade-WoodflourFlock-Filled-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	0.520 g/cc	0.0188 lb/in ³	ASTM D1895
Water Absorption	1.0 %	1.0 %	ASTM D570
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	Compression; ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D638
Flexural Yield Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	8.30 GPa	1200 ksi	ASTM D790
Compressive Yield Strength	221 MPa	32100 psi	ASTM D695
Izod Impact, Notched	0.250 J/cm	0.468 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	177 °C	351 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D257
Dielectric Constant	4.2	4.2	1MHz; ASTM D150
	6.8	6.8	60 Hz; ASTM D150
Dielectric Strength	11.8 kV/mm	300 kV/in	ASTM D149

Electrical Properties	Metric	English	Comments
	0.090	0.090	60 Hz; ASTM D150

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