

Plaslok 302 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 302 is a two-stage, woodflour and flock-filled phenolic molding compound. It has low specific gravity, broad molding latitude and an excellent balance of electrical and physical properties. Its high impact strength makes it particularly well suited for thin wall parts, or where mechanical stress is experienced during assembly. Data provided by Plaslok Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaslok-302-Black-Impact-Grade-WoodflourFlock-Filled-Phenolic-Molding-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ASTM D792
Apparent Bulk Density	0.500 g/cc	0.0181 lb/in ³	ASTM D1895
Water Absorption	0.80 %	0.80 %	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	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 ksi	ASTM D790
Compressive Yield Strength	207 MPa	30000 psi	ASTM D695
Izod Impact, Notched	0.270 J/cm	0.506 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	166 °C	331 °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	

Thermal Properties	Metric	English	Comments
	V-2	V-2	3.18mm

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	12.2 kV/mm	310 kV/in	ASTM D149
Dissipation Factor	0.050	0.050	1 MHz; ASTM D150
	0.20	0.20	60 Hz; ASTM D150
Comparative Tracking Index	138 V	138 V	UL 746

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