

Plaslok 204 Black General Purpose Woodflour/Mineral Filled Phenolic Molding Compound (discontinued **)

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Woodflour/Mineral 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 204 is a two-stage, woodflour and mineral-filled phenolic molding compound formulated to accommodate a wide range of molding situations. In addition, it is recommended for use in thin wall applications where a UL94 V0 rating is required. This compound has been specially formulated in order to have improved electrical properties, as well as good machinability. Data provided by Plaslok Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plaslok-204-Black-General-Purpose-WoodflourMineral-Filled-Phenolic-Molding-Compound-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
Apparent Bulk Density	0.600 g/cc	0.0217 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	45.0 MPa	6530 psi	ASTM D638
Flexural Yield Strength	83.0 MPa	12000 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 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)	149 °C	300 °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	1.57 mm
	V-0	V-0	1.57 mm
Oxygen Index	31.4 %	31.4 %	ASTM D2863

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.80e+11 ohm-cm	1.80e+11 ohm-cm	ASTM D257
Dielectric Constant	5.2	5.2	1MHz; ASTM D150
	7.0	7.0	60 Hz; ASTM D150
Dielectric Strength	12.8 kV/mm	325 kV/in	ASTM D149
Dissipation Factor	0.030	0.030	1 MHz; ASTM D150
	0.070	0.070	60 Hz; ASTM D150
Comparative Tracking Index	185 V	185 V	UL 746

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