

## Plenco 5118 Phenolic, Granular, Transfer Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Mineral/Graphite Filled

### Material Notes:

PLENCO 05118 is a mineral and graphite filled phenolic molding compound, formulated for bearing seals. 05118 provides for a low coefficient of friction, abrasion resistance, minimal water absorption, and excellent dimensional stability under severe exposure. 05118 is available in gray. 05118 is not recommended for electrical insulating applications. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-5118-Phenolic-Granular-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-5118-Phenolic-Granular-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.870 g/cc	0.0314 lb/in <sup>3</sup>	ASTM D1895
Density	1.81 g/cc	0.0654 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.045 %	0.045 %	ASTM D570
Linear Mold Shrinkage	0.00173 cm/cm	0.00173 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	59	59	ASTM D785
Tensile Strength, Ultimate	42.0 MPa	6090 psi	ASTM D638
Elongation at Break	0.58 %	0.58 %	ASTM D638
Tensile Modulus	12.9 GPa	1870 ksi	ASTM D638
Flexural Strength	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	11.1 GPa	1610 ksi	ASTM D790
Compressive Strength	144 MPa	20900 psi	ASTM D695
Izod Impact, Notched	0.174 J/cm	0.326 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.193 J/cm <sup>2</sup>	0.919 ft-lb/in <sup>2</sup>	ASTM D256
Impact	63	63	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	203 °C	397 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	192 °C	378 °F	ASTM D648
Shrinkage	0.044 %	0.044 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.20e+11 ohm-cm	4.20e+11 ohm-cm	ASTM D247
Dielectric Constant	18.6	18.6	ASTM D150
Dissipation Factor	0.051	0.051	ASTM D150
Comparative Tracking Index	300 V	300 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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