

Plenco 5118 Phenolic, Granular, Compression 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-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.870 g/cc	0.0314 lb/in ³	ASTM D1895
Density	1.81 g/cc	0.0654 lb/in ³	ASTM D792
Water Absorption	0.044 %	0.044 %	ASTM D570
Linear Mold Shrinkage	0.00185 cm/cm	0.00185 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	59	59	ASTM D785
Tensile Strength, Ultimate	32.0 MPa	4640 psi	ASTM D638
Elongation at Break	0.40 %	0.40 %	ASTM D638
Tensile Modulus	11.7 GPa	1700 ksi	ASTM D638
Flexural Strength	55.0 MPa	7980 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Compressive Strength	134 MPa	19400 psi	ASTM D695
Izod Impact, Notched	0.156 J/cm	0.292 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.176 J/cm ²	0.838 ft-lb/in ²	ASTM D256
Impact	57	57	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	32.0 μm/m-°C	17.8 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Thermal Conductivity	1.22 W/m-K	8.47 BTU-in/hr-ft ² -°F	ASTM E1461

Thermal Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Maximum Service Temperature, Air	211 °C	412 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	193 °C	379 °F	ASTM D648
Oxygen Index	43 %	43 %	ASTM D2863
Shrinkage	0.057 %	0.057 %	72 hr, 120°C; ASTM D1299

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