

Plenco 05118-T5 Phenolic, Granular, Compression Molded

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

Material Notes:

PLENCO 05118-T5 is a mineral and graphite filled novolac phenolic molding compound with PTFE, formulated for bearing seals. 05118 provides for a low coefficient of friction, good wear resistance, very low water absorption, and good dimensional stability under severe exposure. 05118 is available in grey. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-05118-T5-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1895
Density	1.83 g/cc	0.0661 lb/in ³	ASTM D792
Water Absorption	0.035 %	0.035 %	ASTM D570
Linear Mold Shrinkage	0.00183 cm/cm	0.00183 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	59	59	ASTM D785
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	0.34 %	0.34 %	ASTM D638
Tensile Modulus	10.3 GPa	1490 ksi	ASTM D638
Flexural Strength	55.0 MPa	7980 psi	ASTM D790
Flexural Modulus	10.6 GPa	1540 ksi	ASTM D790
Compressive Strength	130 MPa	18900 psi	ASTM D695
Izod Impact, Notched	0.167 J/cm	0.313 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.179 J/cm ²	0.852 ft-lb/in ²	ASTM D256
Impact	56	56	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	38.0 µm/m-°C	21.1 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Maximum Service Temperature, Air	206 °C	403 °F	Heat Resistance; ASTM D570D

Deflection Temperature at 1.8 MPa Thermal Properties (1.8 MPa)	197 °C Metric	387 °F English	ASTM D2440 Comments
Shrinkage	0.040 %	0.040 %	72 hr, 120°C; ASTM D1299

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