

Plenco 05118-T5 Phenolic, Granular, Injection 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-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.910 g/cc	0.0329 lb/in ³	ASTM D1895
Density	1.84 g/cc	0.0665 lb/in ³	ASTM D792
Water Absorption	0.044 %	0.044 %	ASTM D570
Linear Mold Shrinkage	0.0034 cm/cm	0.0034 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	61	61	ASTM D785
Tensile Strength, Ultimate	42.0 MPa	6090 psi	ASTM D638
Elongation at Break	0.45 %	0.45 %	ASTM D638
Tensile Modulus	13.9 GPa	2020 ksi	ASTM D638
Flexural Strength	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	11.7 GPa	1700 ksi	ASTM D790
Compressive Strength	117 MPa	17000 psi	ASTM D695
Izod Impact, Notched	0.162 J/cm	0.303 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.167 J/cm ²	0.795 ft-lb/in ²	ASTM D256
Impact	61	61	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	210 °C	410 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	ASTM D648
Shrinkage	0.057 %	0.057 %	72 hr, 120°C; ASTM D1299

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