

Plenco 5350 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 05350 is a mineral and graphite filled phenolic molding compound, developed for seal applications. PLENCO 05350 offers excellent dimensional stability, lubricity, and low abrasion properties. 05350 is available in gray. 05350 is not recommended for electrical insulating applications. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-5350-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.930 g/cc	0.0336 lb/in ³	ASTM D1895
Density	1.74 g/cc	0.0629 lb/in ³	ASTM D792
Water Absorption	0.048 %	0.048 %	ASTM D570
Linear Mold Shrinkage	0.0042 cm/cm	0.0042 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	110	110	ASTM D785
Tensile Strength, Ultimate	44.0 MPa	6380 psi	ASTM D638
Elongation at Break	0.32 %	0.32 %	ASTM D638
Tensile Modulus	15.3 GPa	2220 ksi	ASTM D638
Flexural Strength	73.0 MPa	10600 psi	ASTM D790
Flexural Modulus	12.8 GPa	1860 ksi	ASTM D790
Compressive Strength	146 MPa	21200 psi	ASTM D695
Izod Impact, Notched	0.161 J/cm	0.302 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.144 J/cm ²	0.685 ft-lb/in ²	ASTM D256
Impact	37	37	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	257 °C	495 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	181 °C	358 °F	ASTM D648
Shrinkage	0.086 %	0.086 %	72 hr, 120°C; ASTM D1299

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