

Plenco 5350 Phenolic, Granular, Compression 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-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.920 g/cc	0.0332 lb/in ³	ASTM D1895
Density	1.74 g/cc	0.0629 lb/in ³	ASTM D792
Water Absorption	0.045 %	0.045 %	ASTM D570
Linear Mold Shrinkage	0.00235 cm/cm	0.00235 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	109	109	ASTM D785
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	0.236 %	0.236 %	ASTM D638
Tensile Modulus	15.1 GPa	2190 ksi	ASTM D638
Flexural Strength	63.0 MPa	9140 psi	ASTM D790
Flexural Modulus	13.2 GPa	1910 ksi	ASTM D790
Compressive Strength	142 MPa	20600 psi	ASTM D695
Poissons Ratio	0.284	0.284	ASTM D638
Shear Modulus	5.88 GPa	853 ksi	Calculated
Izod Impact, Notched	0.157 J/cm	0.294 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.145 J/cm ²	0.690 ft-lb/in ²	ASTM D256
Impact	35	35	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 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	1.94 W/m-K @Temperature 100 °C	13.5 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	250 °C	482 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	193 °C	379 °F	ASTM D648
Oxygen Index	41 %	41 %	ASTM D2863
Shrinkage	0.073 %	0.073 %	72 hr, 120°C; ASTM D1299

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