

Plenco 4568 Phenolic, Granular, Compression Molded

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

Material Notes:

PLENCO 04568 is a heat resistant, mineral and flock filled, phenolic molding compound, formulated to provide thermal oxidation stability along with excellent dimensional stability. 04568 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4568-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.610 g/cc	0.0220 lb/in ³	ASTM D1895
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Water Absorption	0.135 %	0.135 %	ASTM D570
Linear Mold Shrinkage	0.00297 cm/cm	0.00297 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	91	91	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	0.62 %	0.62 %	ASTM D638
Tensile Modulus	10.1 GPa	1460 ksi	ASTM D638
Flexural Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	9.50 GPa	1380 ksi	ASTM D790
Compressive Strength	190 MPa	27600 psi	ASTM D695
Izod Impact, Notched	0.172 J/cm	0.322 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.211 J/cm ²	1.00 ft-lb/in ²	ASTM D256
Impact	104	104	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	51.0 $\mu\text{m}/\text{m}\cdot\text{C}$	28.3 $\mu\text{in}/\text{in}\cdot\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Maximum Service Temperature, Air	216 °C	421 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	209 °C	408 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Oxygen Index	12.5	12.5	ASTM D2863
Shrinkage	0.143 %	0.143 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.90e+12 ohm-cm	3.90e+12 ohm-cm	ASTM D247
Dielectric Constant	5.9	5.9	ASTM D150
Dielectric Strength	11.2 kV/mm	284 kV/in	Short Time; ASTM D149
	13.2 kV/mm	335 kV/in	Step by Step; ASTM D149
Dissipation Factor	0.044	0.044	ASTM D150
Arc Resistance	171 sec	171 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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