

Plenco 6310 Phenolic, Granular, Compression Molded

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

Material Notes:

PLENCO 06310 is a glass and mineral filled phenolic molding compound offering excellent heat resistance and dimensional stability.

06310 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6310-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.980 g/cc	0.0354 lb/in ³	ASTM D1895
Density	1.86 g/cc	0.0672 lb/in ³	ASTM D792
Water Absorption	0.082 %	0.082 %	ASTM D570
Linear Mold Shrinkage	0.0031 cm/cm	0.0031 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	80	80	ASTM D785
Tensile Strength, Ultimate	31.0 MPa	4500 psi	ASTM D638
Elongation at Break	0.272 %	0.272 %	ASTM D638
Tensile Modulus	13.4 GPa	1940 ksi	ASTM D638
Flexural Strength	60.0 MPa	8700 psi	ASTM D790
Flexural Modulus	11.5 GPa	1670 ksi	ASTM D790
Compressive Strength	162 MPa	23500 psi	ASTM D695
Izod Impact, Notched	0.163 J/cm	0.305 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.195 J/cm ²	0.928 ft-lb/in ²	ASTM D256
Impact	69	69	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 $\mu\text{m/m-}^{\circ}\text{C}$	41.7 $\mu\text{in/in-}^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 $^{\circ}\text{C}$	@Temperature 104 - 266 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	214 $^{\circ}\text{C}$	417 $^{\circ}\text{F}$	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	188 $^{\circ}\text{C}$	370 $^{\circ}\text{F}$	ASTM D648

Thermal Properties	Metric	English	Comments
Shrinkage	0.100 %	0.100 %	72 hr, 120 °C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.90e+13 ohm-cm	1.90e+13 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	12.2 kV/mm	310 kV/in	Short Time; ASTM D149
Dissipation Factor	0.0159	0.0159	ASTM D150
Arc Resistance	48 sec	48 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

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