

Plenco 3356 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 03356 is a mineral filled phenolic molding compound offering excellent arc resistance, comparative tracking, and flame resistant properties. UL recognized under component file E40654. 03356 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-3356-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.660 g/cc	0.0238 lb/in ³	ASTM D1895
Density	1.57 g/cc	0.0567 lb/in ³	ASTM D792
Water Absorption	0.181 %	0.181 %	ASTM D570
Linear Mold Shrinkage	0.0043 cm/cm	0.0043 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	78	78	ASTM D785
Tensile Strength, Ultimate	46.0 MPa	6670 psi	ASTM D638
Elongation at Break	0.52 %	0.52 %	ASTM D638
Tensile Modulus	10.2 GPa	1480 ksi	ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	10.3 GPa	1490 ksi	ASTM D790
Compressive Strength	159 MPa	23100 psi	ASTM D695
Izod Impact, Notched	0.205 J/cm	0.384 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.212 J/cm ²	1.01 ft-lb/in ²	ASTM D256
Impact	89	89	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	56.0 $\mu\text{m}/\text{m}\cdot\text{C}$	31.1 $\mu\text{in}/\text{in}\cdot\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Maximum Service Temperature, Air	208 °C	406 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	188 °C	370 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	0.147 %	0.147 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.50e+11 ohm-cm	4.50e+11 ohm-cm	ASTM D247
Dielectric Constant	5.4	5.4	ASTM D150
Dielectric Strength	7.70 kV/mm	196 kV/in	Step by Step; ASTM D149
	11.5 kV/mm	292 kV/in	Short Time; ASTM D149
Dissipation Factor	0.062	0.062	ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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