

Plenco 4300 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 04300 is a heat resistant, mineral filled phenolic molding compound offering optimum cure characteristics and excellent dimensional stability. It is formulated for wiring devices and electrical control applications. Type ASTM 5948 CFG, and UL recognized under component file E40654. 04300 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4300-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ASTM D1895
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Water Absorption	0.163 %	0.163 %	ASTM D570
Linear Mold Shrinkage	0.0042 cm/cm	0.0042 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	79	79	ASTM D785
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	0.66 %	0.66 %	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Strength	92.0 MPa	13300 psi	ASTM D790
Flexural Modulus	9.40 GPa	1360 ksi	ASTM D790
Compressive Strength	172 MPa	24900 psi	ASTM D695
Poissons Ratio	0.33	0.33	ASTM D638
Shear Modulus	3.76 GPa	545 ksi	Calculated
Izod Impact, Notched	0.202 J/cm	0.378 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.215 J/cm ²	1.02 ft-lb/in ²	ASTM D256
Impact	92	92	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 µm/m-°C	25.6 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	203 °C	397 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	194 °C	381 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	33 %	33 %	ASTM D2863
Shrinkage	0.158 %	0.158 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+11 ohm-cm	4.00e+11 ohm-cm	ASTM D247
Dielectric Constant	5.7	5.7	ASTM D150
Dielectric Strength	12.0 kV/mm	305 kV/in	Short Time; ASTM D149
Dissipation Factor	0.058	0.058	ASTM D150
Arc Resistance	182 sec	182 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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