

Plenco 2300 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 02300 is a general purpose organic filled molding compound formulated to offer excellent processability while maintaining mechanical strength values. UL recognized under component file E40654. 02300 is available in black, brown, red, or green. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2300-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.590 g/cc	0.0213 lb/in ³	ASTM D1895
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.34 %	0.34 %	ASTM D570
Linear Mold Shrinkage	0.0069 cm/cm	0.0069 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	88	88	ASTM D785
Tensile Strength, Ultimate	54.0 MPa	7830 psi	ASTM D638
Elongation at Break	0.79 %	0.79 %	ASTM D638
Tensile Modulus	7.80 GPa	1130 ksi	ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	7.50 GPa	1090 ksi	ASTM D790
Compressive Strength	212 MPa	30700 psi	ASTM D695
Izod Impact, Notched	0.189 J/cm	0.354 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.195 J/cm ²	0.928 ft-lb/in ²	ASTM D256
Impact	110	110	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 $\mu\text{m}/\text{m}\cdot\text{C}$	36.1 $\mu\text{in}/\text{in}\cdot\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Thermal Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ft ² -°F	ASTM E1461

Thermal Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Maximum Service Temperature, Air	197 °C	387 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	162 °C	324 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	25.8 %	25.8 %	ASTM D2863
Shrinkage	0.263 %	0.263 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.60e+11 ohm-cm	3.60e+11 ohm-cm	ASTM D247
Dielectric Constant	5.0	5.0	ASTM D150
Dielectric Strength	11.8 kV/mm	300 kV/in	Short Time; ASTM D149
Dissipation Factor	0.063	0.063	ASTM D150
Arc Resistance	125 sec	125 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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