

Plenco 2300 Phenolic, Granular, Compression 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-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in ³	ASTM D1895
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Water Absorption	0.38 %	0.38 %	ASTM D570
Linear Mold Shrinkage	0.0047 cm/cm	0.0047 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	93	93	ASTM D785
Tensile Strength, Ultimate	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	0.79 %	0.79 %	ASTM D638
Tensile Modulus	9.00 GPa	1310 ksi	ASTM D638
Flexural Strength	97.0 MPa	14100 psi	ASTM D790
Flexural Modulus	8.40 GPa	1220 ksi	ASTM D790
Compressive Strength	227 MPa	32900 psi	ASTM D695
Izod Impact, Notched	0.173 J/cm	0.324 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.190 J/cm ²	0.904 ft-lb/in ²	ASTM D256
Impact	115	115	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	76.0 $\mu\text{m/m}\cdot^{\circ}\text{C}$	42.2 $\mu\text{in/in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 $^{\circ}\text{C}$	@Temperature 104 - 266 $^{\circ}\text{F}$	
Thermal Conductivity	0.360 W/m-K	2.50 BTU-in/hr-ft ² - $^{\circ}\text{F}$	ASTM E1461

Thermal Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Maximum Service Temperature, Air	202 °C	396 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	168 °C	334 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	25.5 %	25.5 %	ASTM D2863
Shrinkage	0.173 %	0.173 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.20e+12 ohm-cm	2.20e+12 ohm-cm	ASTM D247
Dielectric Constant	4.8	4.8	ASTM D150
Dielectric Strength	15.5 kV/mm	394 kV/in	Short Time; ASTM D149
Dissipation Factor	0.039	0.039	ASTM D150
Arc Resistance	98 sec	98 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China