

Plenco 2000 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 02000 is a versatile general purpose, organic filled phenolic molding compound, offering optimum cure characteristics and an excellent balance of molding properties. UL recognized under component file E40654. 02000 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2000-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.590 g/cc	0.0213 lb/in ³	ASTM D1895
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Water Absorption	0.32 %	0.32 %	ASTM D570
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	86	86	ASTM D785
Tensile Strength, Ultimate	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	0.81 %	0.81 %	ASTM D638
Tensile Modulus	7.60 GPa	1100 ksi	ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ASTM D790
Flexural Modulus	6.80 GPa	986 ksi	ASTM D790
Compressive Strength	198 MPa	28700 psi	ASTM D695
Poissons Ratio	0.36	0.36	ASTM D638
Shear Modulus	2.79 GPa	405 ksi	Calculated
Izod Impact, Notched	0.153 J/cm	0.287 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.179 J/cm ²	0.852 ft-lb/in ²	ASTM D256
Impact	93	93	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	51.0 μm/m-°C	28.3 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	198 °C	388 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	
Oxygen Index	29 %	29 %	ASTM D2863
Shrinkage	0.37 %	0.37 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.30e+11 ohm-cm	2.30e+11 ohm-cm	ASTM D247
Dielectric Constant	5.4	5.4	ASTM D150
Dielectric Strength	8.50 kV/mm	216 kV/in	Short Time; ASTM D149
Dissipation Factor	0.058	0.058	ASTM D150
Arc Resistance	134 sec	134 sec	ASTM D495
Comparative Tracking Index	150 V	150 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