

Plenco 2482 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 02482 is a general purpose, organic filled phenolic molding compound offering excellent mechanical strength while maintaining dielectric properties at elevated humidity levels. UL recognized under component file E40654. 02482 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2482-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ASTM D1895
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.291 %	0.291 %	ASTM D570
Linear Mold Shrinkage	0.0057 cm/cm	0.0057 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	87	87	ASTM D785
Tensile Strength, Ultimate	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	0.82 %	0.82 %	ASTM D638
Tensile Modulus	8.50 GPa	1230 ksi	ASTM D638
Flexural Strength	94.0 MPa	13600 psi	ASTM D790
Flexural Modulus	8.10 GPa	1170 ksi	ASTM D790
Compressive Strength	206 MPa	29900 psi	ASTM D695
Izod Impact, Notched	0.184 J/cm	0.345 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.198 J/cm ²	0.942 ft-lb/in ²	ASTM D256
Impact	98	98	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C	38.9 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² -°F	ASTM E1461

Thermal Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Maximum Service Temperature, Air	206 °C	403 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	168 °C	334 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	27.2 %	27.2 %	ASTM D2863
Shrinkage	0.21 %	0.21 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	11.4 kV/mm	290 kV/in	Short Time; ASTM D149
Dissipation Factor	0.053	0.053	ASTM D150
Arc Resistance	132 sec	132 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