

Plenco 2308 Phenolic, Granular, Compression Molded

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

Material Notes:

PLENCO 02308 is a general purpose organic filled phenolic molding compound, offering improved heat resistance and optimized cure properties. UL recognized under component file E40654. 02308 is available in black or brown color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2308-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.610 g/cc	0.0220 lb/in ³	ASTM D1895
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.39 %	0.39 %	ASTM D570
Linear Mold Shrinkage	0.0048 cm/cm	0.0048 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	89	89	ASTM D785
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	0.66 %	0.66 %	ASTM D638
Tensile Modulus	8.50 GPa	1230 ksi	ASTM D638
Flexural Strength	93.0 MPa	13500 psi	ASTM D790
Flexural Modulus	8.20 GPa	1190 ksi	ASTM D790
Compressive Strength	212 MPa	30700 psi	ASTM D695
Izod Impact, Notched	0.194 J/cm	0.363 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.192 J/cm ²	0.914 ft-lb/in ²	ASTM D256
Impact	115	115	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	74.0 µm/m-°C	41.1 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Thermal Conductivity	0.410 W/m-K	2.85 BTU-in/hr-ft ² -°F	ASTM E1461
	@Temperature 100 °C	@Temperature 212 °F	

Maximum Service Temperature, Air Thermal Properties	200 °C Metric	392 °F English	Heat Resistance; ASTM D570D Comments
Deflection Temperature at 1.8 MPa (264 psi)	176 °C	349 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Shrinkage	0.248 %	0.248 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.80e+11 ohm-cm	9.80e+11 ohm-cm	ASTM D247
Dielectric Constant	4.8	4.8	ASTM D150
Dielectric Strength	14.2 kV/mm	361 kV/in	Short Time; ASTM D149
Dissipation Factor	0.041	0.041	ASTM D150
Arc Resistance	122 sec	122 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