

Plenco 1530 Polyester, Briquette, Injection Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Polyester, TS , Thermoset Polyester Glass and Mineral Filled BMC

Material Notes:

PLENCO 01530 is a glass and mineral reinforced pelletized polyester molding compound, offering improved mechanical strength properties along with excellent electrical properties and dimensional stability. UL recognized under component file E40654. 01530 is available in black, grey, or blue color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-1530-Polyester-Briquette-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.870 g/cc	0.0314 lb/in ³	ASTM D1895
Density	1.99 g/cc	0.0719 lb/in ³	ASTM D792
Water Absorption	0.132 %	0.132 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	78	78	ASTM D785
Tensile Strength, Ultimate	82.0 MPa	11900 psi	ASTM D638
Elongation at Break	0.59 %	0.59 %	ASTM D638
Tensile Modulus	20.2 GPa	2930 ksi	ASTM D638
Flexural Strength	135 MPa	19600 psi	ASTM D790
Flexural Modulus	17.7 GPa	2570 ksi	ASTM D790
Compressive Strength	166 MPa	24100 psi	ASTM D695
Poissons Ratio	0.30	0.30	ASTM D638
Shear Modulus	7.77 GPa	1130 ksi	Calculated
Izod Impact, Notched	0.340 J/cm	0.637 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.271 J/cm ²	1.29 ft-lb/in ²	ASTM D256
Impact	200	200	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	23.9 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.720 W/m-K @Temperature 100 °C	5.00 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	220 °C	428 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	261 °C	502 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	25 %	25 %	ASTM D2863
Shrinkage	0.0115 %	0.0115 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+15 ohm-cm	2.00e+15 ohm-cm	ASTM D247
Dielectric Constant	4.6	4.6	ASTM D150
Dielectric Strength	11.7 kV/mm	297 kV/in	Step by Step; ASTM D149
	15.0 kV/mm	381 kV/in	Short Time; ASTM D149
Dielectric Breakdown	23000 V	23000 V	1hr 120C; ASTM D149
Dissipation Factor	0.0159	0.0159	ASTM D150
Arc Resistance	190 sec	190 sec	ASTM D495
Comparative Tracking Index	600 V	600 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