

Plenco 1530 Polyester, Briquette, Transfer 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-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.880 g/cc	0.0318 lb/in ³	ASTM D1895
Density	1.99 g/cc	0.0719 lb/in ³	ASTM D792
Water Absorption	0.138 %	0.138 %	ASTM D570
Linear Mold Shrinkage	0.00116 cm/cm	0.00116 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	76	76	ASTM D785
Tensile Strength, Ultimate	83.0 MPa	12000 psi	ASTM D638
Elongation at Break	0.62 %	0.62 %	ASTM D638
Tensile Modulus	18.2 GPa	2640 ksi	ASTM D638
Flexural Strength	140 MPa	20300 psi	ASTM D790
Flexural Modulus	18.3 GPa	2650 ksi	ASTM D790
Compressive Strength	202 MPa	29300 psi	ASTM D695
Poissons Ratio	0.32	0.32	ASTM D638
Shear Modulus	6.89 GPa	999 ksi	Calculated
Izod Impact, Notched	0.410 J/cm	0.768 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.380 J/cm ²	1.81 ft-lb/in ²	ASTM D256
Impact	179	179	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 µm/m-°C	30.0 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	223 °C	433 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	264 °C	507 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	26 %	26 %	ASTM D2863
Shrinkage	0.0044 %	0.0044 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.10e+15 ohm-cm	3.10e+15 ohm-cm	ASTM D247
Dielectric Constant	4.5	4.5	ASTM D150
Dielectric Strength	11.8 kV/mm	300 kV/in	Step by Step; ASTM D149
	14.8 kV/mm	376 kV/in	Short Time; ASTM D149
Dielectric Breakdown	23000 V	23000 V	1hr 120C; ASTM D149
Dissipation Factor	0.0142	0.0142	ASTM D150
Arc Resistance	191 sec	191 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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