

MATERIALS ENGINEERING LABORATORY
DATA REPORT
PLENCO 01506
 Polyester
 injection molded

PLENCO 01506 is a mineral and cellulose filled granular polyester molding compound, with glass fiber reinforcement for improved mechanical strength properties. 01506 offers excellent electrical properties and resistance to chemical degradation from repeated detergent exposure. UL recognized under component file E40654. 01506 is available in beige.

PROPERTY	metric	english	ASTM Test Method
Form	briquette		
Apparent Density	0.70 g/cm ³	43.5 lb/ft ³	D1895
Specific Gravity	1.70		D792
Mold Shrinkage	0.0058 m/m	0.0058 in/in	D6289
Post Shrinkage 72hr 120°C	0.02 %		D6289
Izod Impact Notched	29.0 J/m	0.54 ft-lb/in	D256
Charpy Impact Notched	25.5 J/m	0.48 ft-lb/in	D256
Drop Ball Impact	207 J/m	3.9 ft-lb/in	Plenco
Tensile Strength	53 MPa	7,690 psi	D638
Tensile Modulus	9,720 MPa	1,410,000 psi	D638
Tensile Elongation	1.1 %		D638
Flexural Strength	95.2 MPa	13,801 psi	D790
Flexural Modulus	9,193 MPa	1,333,000 psi	D790
Compressive Strength	131 MPa	18,998 psi	D695
Heat Resistance	192 °C	377 °F	D794
Deflection Temperature 1.82MPa	226 °C	438 °F	D648
Water Absorption	0.15 %		D570
Rockwell Hardness	61 E scale		D785
Dielectric Strength short time	13.6 kV/mm	345 V/mil	D149
Dielectric Strength Step	11.7 kV/mm	298 V/mil	D149
Dissipation Factor, 1MHz	0.019		D150
Permittivity, 1MHz	4.2		D150
Volume Resistivity	7.1E+14 ohm-cm	2.8E+14 ohm-in	D257
ASTM Arc Resistance	191 sec		D495
Comparative Tracking Index	600 V		D3638
UL Flammability	V-1 @3.00mm		UL 94
Oxygen Index	32.3 %		D2863
Thermal Expansion	7.6E-05 /°C	4.2E-05 /°F	E831
Thermal Conductivity 100°C	W/m/°C	Btu/hr/ft/°F	E1461

Store in cool dry place.

The Typical Values listed are results obtained from the testing of standard specimens using the stated test procedures, with said specimens molded under controlled laboratory conditions from representative samplings of the product. Although Plastics Engineering Company at all times reserves the right to make changes in the materials, suppliers and processing, the values listed as typical are those to be expected at the time of our manufacture. The final determination of the accuracy or completeness of any information, the suitability of the product for the use contemplated, the manner of its use, and the matter of any infringement of patents in use, are all the sole responsibility of the user. PLASTICS ENGINEERING COMPANY MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THIS PRODUCT, INCLUDING NO WARRANTY OF THE MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Plastics Engineering Company reserves at all times the right to discontinue the production of any or all of its products. This is an uncontrolled copy and not subject to updates.