

PLENCO 08112 is a general purpose polyester bulk molding compound that is characterized by adding utility to a number of applications. Because of its combination of high heat resistance, good electrical properties and strength. Customers have found this material useful for such applications as iron skirts and other small appliance housings, coil bobbins, and electric motor components such as brush holders. It is available in either bulk or extruded form. Colors are available upon request. It is UL recognized under file E40654.

PROPERTY	metric	english	ASTM Test Method
Form	bmc		
Apparent Density	g/cm ³	lb/ft ³	D1895
Specific Gravity	2.02		D792
Mold Shrinkage*	0.0013 m/m	0.0013 in/in	D6289
Post Shrinkage 72hr 120°C	0.00 %		D6289
Izod Impact Notched	237.4 J/m	4.45 ft·lb/in	D256
Charpy Impact Notched	231.5 J/m	4.34 ft·lb/in	D256
Drop Ball Impact	J/m	ft·lb/in	Plenco
Tensile Strength	43 MPa	6,249 psi	D638
Tensile Modulus	17,098 MPa	2,480,000 psi	D638
Tensile Elongation	0.5 %		D638
Flexural Strength	97.7 MPa	14,176 psi	D790
Flexural Modulus	15,306 MPa	2,220,000 psi	D790
Compressive Strength	137 MPa	19,928 psi	D695
Heat Resistance	224 °C	436 °F	D794
Deflection Temperature 1.82MPa	264 °C	508 °F	D648
Water Absorption	0.08 %		D570
Rockwell Hardness	55 E scale		D785
Dielectric Strength short time	11.7 kV/mm	296 V/mil	D149
Dissipation Factor, 1MHz	0.025		D150
Permittivity, 1MHz	5.0		D150
Volume Resistivity	7.9E+15 ohm·cm	3.1E+15 ohm·in	D257
ASTM Arc Resistance	185 sec		D495
Comparative Tracking Index	600 V		D3638
UL Flammability	HB @1.5mm		UL 94
Oxygen Index	%		D2863
Coefficient of Thermal Expansion	4.8E-05 /°C	2.7E-05 /°F	E831
Thermal Conductivity 100°C	0.76 W/m°C	0.44 Btu/hr/ft/°F	E1461

Specimens compression molded

Limited Shelf-Life. Actual shelf-life obtained is dependent on storage conditions, molding process, and mold design. 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.

*Mold Shrinkage obtained under controlled laboratory conditions with relatively simple mold geometry and should be used for comparison purposes only and not for actual tool design.