

SHEBOYGAN WISCONSIN 920.458.2121 fax 920.458.1923

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MATERIALS ENGINEERING LABORATORY DATA REPORT

Plenco 08228
Polyester BMC

Plenco 08228 is a glass fiber reinforced polyester bulk molding compound. Plenco 08228 is formulated for high strength, low warpage, and a wide processing window. It is available in bulk or extruded form, with custom matched colors available upon request.

PROPERTY	metric		english		ASTM Test Method
Form	bmc		City		
Apparent Density		g/cm³		lb/ft³	D1895
Specific Gravity	1.89				D792
Mold Shrinkage*	0.0037	m/m	0.0037	in/in	D6289
Post Shrinkage 72hr 120°C	0.00	%			D6289
Izod Impact Notched	280.4	J/m	5.25	ft·lb/in	D256
Charpy Impact Notched	297.7	J/m	5.58	ft·lb/in	D256
Drop Ball Impact		J/m		ft·lb/in	Plenco
Tensile Strength	57	MPa	8,208	psi	D638
Tensile Modulus	13,826	MPa	2,005,000	psi	D638
Tensile Elongation	0.7	%			D638
Flexural Strength	126.0	MPa	18,280	psi	D790
Flexural Modulus	13,267	MPa	1,924,000	psi	D790
Compressive Strength	149	MPa	21,603	psi	D695
Heat Resistance	238	°C	461	°F	D794
Deflection Temperature _{1.82MPa}	271	°C	520	°F	D648
Water Absorption	0.07	%			D570
Rockwell Hardness	52	E scale			D785
Dielectric Strength short time	12.1	kV/mm	308	V/mil	D149
Dissipation Factor, 1MHz	0.009				D150
Permittivity, 1MHz	4.6				D150
Volume Resistivity	1.4E+16	ohm·cm	5.6E+15	ohm∙in	D257
ASTM Arc Resistance	186	sec			D495
Comparative Tracking Index	600	V			D3638
UL Flammability					UL 94
Oxygen Index		%			D2863
Coefficient of Thermal Expansion	5.5E-05	/°C	3.1E-05 /°F		E831
Thermal Conductivity 100°C	0.65	W/m/°C	0.38 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 Plastice 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 companison purposes only and not for actual tool design.