

MATERIALS ENGINEERING LABORATORY
DATA REPORT
PLENCO 08235
Polyester BMC
compression molded

PLENCO 08235 is a renumber of PlasGlas 20315. PLENCO 08235 is a 15% glass-filled polyester bulk molding compound characterized as a flame-retardant, medium strength electrical grade. It is suitable for a broad range of applications such as capacitor cans, electrical enclosures, etc. It is available in bulk or extruded form, natural and black. Other colors 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	1.86		D792
Mold Shrinkage	0.0033 m/m	0.0033 in/in	D6289
Post Shrinkage 72hr 120°C	0.00 %		D6289
Izod Impact Notched	372.7 J/m	6.98 ft-lb/in	D256
Charpy Impact Notched	372.6 J/m	6.98 ft-lb/in	D256
Drop Ball Impact	J/m	ft-lb/in	Plenco
Tensile Strength	41 MPa	5,959 psi	D638
Tensile Modulus	14,382 MPa	2,086,000 psi	D638
Tensile Elongation	0.5 %		D638
Flexural Strength	112.9 MPa	16,374 psi	D790
Flexural Modulus	12,871 MPa	1,867,000 psi	D790
Compressive Strength	133 MPa	19,256 psi	D695
Heat Resistance	222 °C	432 °F	D794
Deflection Temperature 1.82MPa	272 °C	522 °F	D648
Water Absorption	0.08 %		D570
Rockwell Hardness	48 E scale		D785
Dielectric Strength short time	13.6 kV/mm	346 V/mil	D149
Dielectric Strength Step	11.3 kV/mm	288 V/mil	D149
Dissipation Factor, 1MHz	0.016		D150
Permittivity, 1MHz	4.3		D150
Volume Resistivity	2.2E+15 ohm-cm	8.7E+14 ohm-in	D257
ASTM Arc Resistance	194 sec		D495
Comparative Tracking Index	600 V		D3638
UL Flammability	V-0 @1.50mm		UL 94
Oxygen Index	%		D2863
Thermal Expansion	/°C	/°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.