

MATERIALS ENGINEERING LABORATORY

DATA REPORT

PLENCO 00755

Melamine-Phenolic
compression molded

PLENCO 00755 is a melamine-phenolic copolymer molding compound offering excellent electrical and flame resistant properties. Type ASTM 5948 CMG, and UL recognized under component file E40654. 00755 is available only in brown.

PROPERTY	metric	english	ASTM Test Method
Form	granular		
Apparent Density	0.58 g/cm ³	36.2 lb/ft ³	D1895
Specific Gravity	1.60		D792
Mold Shrinkage	0.0042 m/m	0.0042 in/in	D6289
Post Shrinkage 240hr 105°C	0.89 %		D6289
Izod Impact Notched	20.1 J/m	0.38 ft-lb/in	D256
Charpy Impact Notched	22.1 J/m	0.41 ft-lb/in	D256
Drop Ball Impact	148 J/m	2.8 ft-lb/in	Plenco
Tensile Strength	56 MPa	8,084 psi	D638
Tensile Modulus	10,039 MPa	1,456,000 psi	D638
Tensile Elongation	0.6 %		D638
Flexural Strength	89.5 MPa	12,980 psi	D790
Flexural Modulus	8,856 MPa	1,285,000 psi	D790
Compressive Strength	165 MPa	23,926 psi	D695
Heat Resistance	152 °C	305 °F	D794
Deflection Temperature 1.82MPa	184 °C	363 °F	D648
Water Absorption	0.36 %		D570
Rockwell Hardness	71 E scale		D785
Dielectric Strength short time	12.0 kV/mm	305 V/mil	D149
Dielectric Strength Step	8.5 kV/mm	216 V/mil	D149
Dissipation Factor, 1MHz	0.054		D150
Permittivity, 1MHz	6.5		D150
Volume Resistivity	1.8E+13 ohm-cm	7.1E+12 ohm-in	D257
ASTM Arc Resistance	186 sec		D495
Comparative Tracking Index	425 V		D3638
UL Flammability	V-0 @1.50mm		UL 94
Oxygen Index	32.6 %		D2863
Thermal Expansion	/°C	/°F	E831
Thermal Conductivity 100°C	0.58 W/m/°C	0.34 Btu/hr/ft/°F	E1461

Prior to molding compression electrical specimens, material is dried 30 min @ 90C, 110C preheat.

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.