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## MATERIALS ENGINEERING LABORATORY DATA REPORT

## **PLENCO 00755**

Melamine-Phenolic injection molded

PLENCO 00755 is a melamine-phenolic copolymer molding compound offering excellent electrical and flame resistant properties. UL recognized under component file E40654. 00755 is available only in brown. 00755 was qualified under military specification MIL-M-14 (superseded by ASTM D-5948) TYPE CMG and batches can, if requested and paid for, be tested for certification to the standard.

PROPERTY	met	tric	eng	lieh	ASTM Test Method
Form	Granular	ii iC	eng	11311	Wictioa
Apparent Density		g/cm³	35.3	lb/ft³	D1895
Specific Gravity	1.59				D792
Mold Shrinkage*	0.0077	m/m	0.0077	in/in	D6289
Post Shrinkage 72hr 120°C	1.05	%			D6289
Izod Impact Notched	19.4	J/m	0.36	ft·lb/in	D256
Charpy Impact Notched	19.9	J/m	0.37	ft·lb/in	D256
Drop Ball Impact	119	J/m	2.2	ft·lb/in	Plenco
Tensile Strength	65	MPa	9,428	psi	D638
Tensile Modulus	10,237	MPa	1,485,000	psi	D638
Tensile Elongation	0.8	%			D638
Flexural Strength	94.3	MPa	13,681	psi	D790
Flexural Modulus	8,892	MPa	1,290,000	psi	D790
Compressive Strength	160	MPa	23,218	psi	D695
Heat Resistance	150	°C	302	°F	D794
Deflection Temperature 1.82MPa	174	°C	346	°F	D648
Water Absorption	0.35	%			D570
Rockwell Hardness	73	E scale			D785
Dielectric Strength short time	7.8	kV/mm	197	V/mil	D149
Dissipation Factor, 1MHz	0.077				D150
Permittivity, 1MHz	7.1				D150
Volume Resistivity	3.3E+12	ohm·cm	1.3E+12	ohm·in	D257
ASTM Arc Resistance	180	sec			D495
Comparative Tracking Index	525	V			D3638
UL Flammability	V-0 @1	.50mm			UL 94
Oxygen Index	32.6	%			D2863
Coefficient of Thermal Expansion	5.0E-05	/°C	2.8E-05	/°F	E831
Thermal Conductivity 100°C	0.58	W/m/°C	0.34	Btu/hr/ft/°F	E1461

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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.

<sup>\*</sup>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.