

MATERIALS ENGINEERING LABORATORY DATA REPORT

PLENCO 02567

Single-Stage Phenolic compression molded

PLENCO 02567 is a general purpose, organic filled phenolic molding compound offering excellent cosmetic characteristics. Customers have found this material useful for vacuum metalized closures. UL recognized under component file E40654. 02567 is available in black or red color. 02567 Black is not intended for electrical insulating applications.

PROPERTY	metric	english	ASTM Test Method
Form	Granular		
Apparent Density	0.61 g/cm ³	37.9 lb/ft ³	D1895
Specific Gravity	1.39		D792
Mold Shrinkage*	0.0041 m/m	0.0041 in/in	D6289
Post Shrinkage 72hr 120°C	0.41 %		D6289
Izod Impact Notched	15.2 J/m	0.28 ft·lb/in	D256
Charpy Impact Notched	18.7 J/m	0.35 ft·lb/in	D256
Drop Ball Impact	102 J/m	1.9 ft·lb/in	Plenco
Tensile Strength	62 MPa	9,035 psi	D638
Tensile Modulus	8,003 MPa	1,161,000 psi	D638
Tensile Elongation	0.9 %		D638
Flexural Strength	91.0 MPa	13,202 psi	D790
Flexural Modulus	7,432 MPa	1,078,000 psi	D790
Compressive Strength	214 MPa	31,101 psi	D695
Heat Resistance	203 °C	398 °F	D794
Deflection Temperature 1.82MPa	186 °C	367 °F	D648
Water Absorption	0.48 %		D570
Rockwell Hardness	84 E scale		D785
Dielectric Strength short time	13.0 kV/mm	329 V/mil	D149
Dissipation Factor, 1MHz	0.041		D150
Permittivity, 1MHz	5.8		D150
Volume Resistivity	2.0E+13 ohm·cm	8.0E+12 ohm·in	D257
ASTM Arc Resistance	120 sec		D495
Comparative Tracking Index	175 V		D3638
UL Flammability	HB @1.50mm		UL 94
Oxygen Index	28.3 %		D2863
Coefficient of Thermal Expansion	6.0E-05 /°C	3.3E-05 /°F	E831
Thermal Conductivity 100°C	0.37 W/m/°C	0.22 Btu/hr/ft/°F	E1461

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

ver 060915

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.*