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www.plenco.com

DATA REPORT
PLENCO 06500

Two-Stage Phenolic

MATERIALS ENGINEERING LABORATORY

transfer molded

PLENCO 06500 is a glass reinforced phenolic molding compound offering improved strength, dimensional stability, and excellent electrical properties. UL recognized under component file E40654. 06500 is available in black.

| PROPERTY | metric | | english | | ASTM Test Method |
|----------------------------------|-------------|----------------|-----------|--------------|------------------------|
| Form | Briquette | | eng | 11311 | Would |
| Apparent Density | | g/cm³ | 43.7 | lb/ft³ | D1895 |
| Specific Gravity | 1.76 | <u> </u> | | | D792 |
| Mold Shrinkage* | 0.0012 | m/m | 0.0012 | in/in | D6289 |
| Post Shrinkage 72hr 120°C | 0.04 | % | | | D6289 |
| Izod Impact Notched | 38.5 | J/m | 0.72 | ft·lb/in | D256 |
| Charpy Impact Notched | 37.0 | J/m | 0.69 | ft·lb/in | D256 |
| Drop Ball Impact | 230 | J/m | 4.3 | ft·lb/in | Plenco |
| Tensile Strength | 92 | MPa | 13,403 | psi | D638 |
| Tensile Modulus | 14,330 | MPa | 2,078,000 | psi | D638 |
| Tensile Elongation | 0.9 | % | | | D638 |
| Flexural Strength | 145.0 | MPa | 21,026 | psi | D790 |
| Flexural Modulus | 14,507 | MPa | 2,104,000 | psi | D790 |
| Compressive Strength | 243 | MPa | 35,177 | psi | D695 |
| Heat Resistance | 196 | °C | 384 | °F | D794 |
| Deflection Temperature 1.82MPa | 224 | °C | 436 | °F | D648 |
| Water Absorption | 0.10 | % | | | D570 |
| Rockwell Hardness | 99 | E scale | | | D785 |
| Dielectric Strength short time | 17.1 | kV/mm | 433 | V/mil | D149 |
| Dissipation Factor, 1MHz | 0.033 | | | | D150 |
| Permittivity, 1MHz | 5.1 | | | | D150 |
| Volume Resistivity | 6.6E+11 | ohm·cm | 2.6E+11 | ohm·in | D257 |
| ASTM Arc Resistance | 136 | sec | | | D495 |
| Comparative Tracking Index | 175 | V | | | D3638 |
| UL Flammability | V-0 @3.00mm | | | UL 94 | |
| Oxygen Index | 34.5 | % | | | D2863 |
| Coefficient of Thermal Expansion | 3.5E-05 | /°C 1.9E-05/°F | | E831 | |
| Thermal Conductivity 100°C | 0.54 | W/m/°C | 0.31 | Btu/hr/ft/°F | E1461 |

ver 060915

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.