

DATA SHEET

GLASS FILLED DELRIN

20% Glass Fiber Reinforced Homopolymer Acetal (Polyoxymethylene)

| PROPERTY | UNITS | VALUE |
|---|----------------|-----------------------|
| MECHANICAL | | |
| Specific Gravity | - | 1.56 |
| Tensile Strength | psi | 8,500 |
| Tensile Modulus | psi | 900,000 |
| Elongation (at break) | % | 12 |
| Flexural Strength | psi | 10,700 |
| Flexural Modulus | psi | 730,000 |
| Compressive Strength | psi | -- |
| Hardness, Rockwell | - | R118 |
| Coefficient of Friction (Dry vs. Steel) | - | .34 |
| Limiting PV (with 4:1 safety factor) | psi x fpm | 2,900 |
| THERMAL | | |
| Coefficient of Linear Thermal Expansion | in/in/F | 4.50×10^{-5} |
| Heat Deflection Temperature (264 psi) | F | 316 |
| Glass Transition Temperature | F | 160 |
| Continuous Service Temperature | F | 180 |
| Thermal Conductivity | BTU/in/hr.ft.F | -- |
| ELECTRICAL | | |
| Dielectric Strength | volts/mil | 490 |
| Volume Resistivity | ohm-cm | 10^{15} |
| OTHER | | |
| Water Absorption, Immersion, 24 hrs. | % by wt. | .25 |
| Water Absorption, Immersion, Saturation | % by wt. | 1.0 |

ENGINEERING NOTES:

- * High Rigidity
- * Excellent machinability
- * Limited abrasion resistance
- * Limited chemical resistance