

**Technetics Group Texolon™ 9406 PTFE (Unverified Data\*\*)**

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE

**Material Notes:**

General purpose 25% glass filled PTFE for applications less demanding PTFE Characteristics  
 Chemical Resistance Thermal Stability Cryogenic Properties Low Coefficient of Friction Low Surface Energy Low Dielectric Constant High Volume and Surface Resistivity Flame Resistance Applications Semiconductor Chemical Processing Food Pharmaceutical Aerospace Telecommunications Information provided by Technetics Group (formerly Plastomer Technologies)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Technetics-Group-Texolon-9406-PTFE-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_Technetics-Group-Texolon-9406-PTFE-nbspUnverified-Data.php)

| Physical Properties | Metric           | English          | Comments                            |
|---------------------|------------------|------------------|-------------------------------------|
| Specific Gravity    | 2.15 - 2.24 g/cc | 2.15 - 2.24 g/cc | ASTM D792                           |
| Deformation         | 3.0 - 9.0 %      | 3.0 - 9.0 %      | 73°F., 2000 psi, 24 hrs.; ASTM D621 |

| Mechanical Properties   | Metric          | English         | Comments                 |
|-------------------------|-----------------|-----------------|--------------------------|
| Hardness, Shore D       | 55 - 58         | 55 - 58         | ASTM D2240               |
| Tensile Strength, Yield | 6.89 - 13.8 MPa | 1000 - 2000 psi | ASTM D1708               |
| Elongation at Yield     | 50 - 150 %      | 50 - 150 %      | ASTM D1709               |
| Compressive Strength    | 6.21 - 8.27 MPa | 900 - 1200 psi  | @ 1.0% Strain; ASTM D695 |
|                         | 8.27 - 11.0 MPa | 1200 - 1600 psi | @ 0.2% Offset; ASTM D695 |

| Thermal Properties   | Metric   | English   | Comments   |
|----------------------|--|---|------------|
| CTE, linear          | 54.0 - 144 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$<br>@Temperature 25.6 - 204 °C | 30.0 - 80.0 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$<br>@Temperature 78.0 - 400 °F | ASTM D696  |
| Thermal Conductivity | 0.360 - 0.504 W/m-K  | 2.50 - 3.50 BTU-in/hr-ft <sup>2</sup> -°F   | ASTM C-177 |

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