

Exac PTFE (EXTRUDED)

Polytetrafluoroethylene

Saint Gobain - Norton

Message:

Exac PTFE (EXTRUDED) is a Polytetrafluoroethylene (PTFE) product. It is available in North America. Applications of Exac PTFE (EXTRUDED) include aerospace, engineering/industrial parts, electrical/electronic applications, military applications and automotive.

Characteristics include:

- Flame Rated
- Chemical Resistant
- Good Weather Resistance
- Heat Resistant

| General Information | |
|---------------------|--------------------------|
| Features | Good Chemical Resistance |
| | Good Thermal Stability |
| | Good Weather Resistance |
| | Low Friction |
| | Machinable |
| | Self Lubricating |
| Uses | Aerospace Applications |
| | Automotive Applications |
| | Bearings |
| | Bushings |
| | Connectors |
| | Electrical Parts |
| | Insulation |
| | Medical Devices |
| | Pump Parts |
| | Seals |
| | Valves/Valve Parts |
| Agency Ratings | AMS 3656 |
| | AMS 3657 |
| | AMS 3659 |
| | ASTM D 1710 |
| | MIL P-19468 |
| | MIL P-22296 |
| Forms | Rod |
| | Tubing |

| Physical | Nominal Value | Unit | Test Method |
|-----------------------------------|---------------|-------------------|-------------|
| Specific Gravity | 2.16 | g/cm ³ | ASTM D792 |
| Water Absorption (24 hr) | 0.010 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 58 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 552 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 19.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield) | 200 | % | ASTM D638 |
| Flexural Modulus | 621 | MPa | ASTM D790 |
| Compressive Strength | 11.7 | MPa | ASTM D695 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (24°C) | 160 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 121 | °C | |
| 1.8 MPa, Unannealed | 55.6 | °C | |
| Continuous Use Temperature | 260 | °C | ASTM D794 |
| Brittleness Temperature | -268 | °C | ASTM D746 |
| CLTE - Flow | 9.9E-5 | cm/cm/°C | ASTM D696 |
| Thermal Conductivity | 0.25 | W/m/K | ASTM C177 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+18 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+18 | ohms·cm | ASTM D257 |
| Dielectric Strength | 19 | kV/mm | ASTM D149 |
| Dielectric Constant | | | ASTM D150 |
| 60 Hz | 2.10 | | |
| 1 MHz | 2.10 | | |
| Dissipation Factor | | | ASTM D150 |
| 60 Hz | 2.0E-4 | | |
| 1 MHz | 2.0E-4 | | |
| Arc Resistance | 300 | sec | ASTM D495 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | V-0 | | UL 94 |

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