## Product Description

20% Teflon® Fiber Filled Medium Viscosity Acetal Homopolymer with Low Wear and Low Friction

## General

### Material Status
- Commercial: Active

### Literature
- Processing - Injection Molding (English)
- Typical Processing for DuPont Engineering Polymers (English)

### UL Yellow Card
- E41938-257635

### Search for UL Yellow Card
- DuPont Performance Polymers
- Delrin®

### Availability
- Africa & Middle East
- Asia Pacific
- Europe
- Latin America
- North America

### Filler / Reinforcement
- Teflon® PTFE, 20% Filler by Weight

### Additive
- Lubricant
- Mold Release

### Agency Ratings
- UL Unspecified Rating

### Forms
- Pellets

### Processing Method
- Injection Molding

### Multi-Point Data
- Isothermal Stress vs. Strain (ISO 11403-1)
- Secant Modulus vs. Strain (ISO 11403-1)
- Shear Modulus vs. Temperature (ISO 11403-1)
- Specific Volume vs Temperature (ISO 11403-2)
- Viscosity vs. Shear Rate (ISO 11403-2)

### Resin ID (ISO 1043)
- POM-SF20

### Part Marking Code (ISO 11469)
- >POM-SF20<

## Physical

### Density
- 1.53 g/cm³
- 1.53 g/cm³

### Molding Shrinkage
- Across Flow: 1.4%
- Flow: 2.0%

### Water Absorption
- 73°F (23°C), 24 hr, 0.0787 in (2.00 mm): 1.0%
- Equilibrium, 73°F (23°C), 0.0787 in (2.00 mm), 50% RH: 0.20%

### Mechanical

#### Tensile Modulus
- 406000 psi
- 2800 MPa

#### Tensile Stress (Break)
- 7250 psi
- 50.0 MPa

#### Tensile Strain (Break)
- 10%

#### Flexural Modulus
- 363000 psi
- 2500 MPa

#### Impact

##### Charpy Notched Impact Strength
- -22°F (-30°C): 1.4 ft·lb/in²
- 73°F (23°C): 1.4 ft·lb/in²

##### Charpy Unnotched Impact Strength
- -22°F (-30°C): 17 ft·lb/in²
- 73°F (23°C): 19 ft·lb/in²

##### Notched Izod Impact Strength (73°F (23°C))
- 1.4 ft·lb/in²

### Thermal

##### Heat Deflection Temperature
- 66 psi (0.45 MPa), Unannealed: 320°F
- 264 psi (1.8 MPa), Unannealed: 198°F

##### Melting Temperature
- 352°F

---

Form No. TDS-36994-en

Document Created: Wednesday, August 19, 2015
Added to Prospector: November, 2000
Last Updated: 9/2/2014

UL and the UL logo are trademarks of UL LLC © 2015. All Rights Reserved.

The information presented on this datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.
### Thermal

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value (English)</th>
<th>Nominal Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLTE</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flow</td>
<td>6.1E-5 in/in/°F</td>
<td>1.1E-4 cm/cm/°C</td>
<td>ISO 11359-2</td>
</tr>
<tr>
<td>Transverse</td>
<td>5.6E-5 in/in/°F</td>
<td>1.0E-4 cm/cm/°C</td>
<td></td>
</tr>
</tbody>
</table>

### Electrical

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value (English)</th>
<th>Nominal Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Resistivity</td>
<td>&gt; 1.0E+15 ohms</td>
<td>&gt; 1.0E+15 ohms</td>
<td>IEC 60093</td>
</tr>
<tr>
<td>Comparative Tracking Index</td>
<td>600 V</td>
<td>600 V</td>
<td>IEC 60112</td>
</tr>
</tbody>
</table>

### Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value (English)</th>
<th>Nominal Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burning Rate (0.0394 in (1.00 mm))</td>
<td>2.1 in/min</td>
<td>54 mm/min</td>
<td>ISO 3795</td>
</tr>
<tr>
<td>Flammability Classification</td>
<td>HB</td>
<td>HB</td>
<td>IEC 60695-11-10,-20</td>
</tr>
</tbody>
</table>

### Notes

1. These links provide you with access to supplier literature. We work hard to keep them up to date; however, you may find the most current literature from the supplier.

2. A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

3. Typical properties: these are not to be construed as specifications.

4. 10°C/min
Where to Buy

Supplier
DuPont Performance Polymers
Wilmington, DE USA
Telephone: 302-999-4592
Web: http://plastics.dupont.com/

Distributor
Biesterfeld Plastic GmbH
Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by country.
Telephone: +49-40-32008-0
Web: http://www.biesterfeld-plastic.com/
Availability: Algeria, Austria, Belgium, Bosnia and Herzegovina, Brazil, Bulgaria, Croatia, Cyprus, Czech Republic, Egypt, France, Germany, Greece, Hungary, Italy, Libyan Arab Jamahiriya, Luxembourg, Mauritania, Morocco, Netherlands, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Switzerland, Tunisia, Turkey

CCC Plastics
Telephone: 800-465-6917
Web: http://www.cccplastics.com/
Availability: Canada

PolyOne Distribution
PolyOne Distribution is a global distribution company. Contact PolyOne Distribution for availability of individual products by country.
Telephone: 800-894-4266
Web: http://polyonedistribution.com/
Availability: Global