

# UTTAP SF 600

Polyethersulfone

Ovation Polymers Inc.

## Message:

Polyether Sulfone Resin - Medium Viscosity, un-reinforced standard grade for easy injection molding.

| General Information                                                                                                                                   |                   |                   |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------|
| Features                                                                                                                                              | Medium viscosity  |                   |             |
| Forms                                                                                                                                                 | Particle          |                   |             |
| Processing Method                                                                                                                                     | Injection molding |                   |             |
| Physical                                                                                                                                              | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                                                                                                                      | 1.37              | g/cm <sup>3</sup> | ASTM D792   |
| Mechanical                                                                                                                                            | Nominal Value     | Unit              | Test Method |
| Tensile Modulus <sup>1</sup> (23°C)                                                                                                                   | 2600              | MPa               | ASTM D638   |
| Tensile Strength <sup>2</sup> (Yield, 23°C)                                                                                                           | 88.0              | MPa               | ASTM D638   |
| Tensile Elongation <sup>3</sup> (Break, 23°C)                                                                                                         | 6.0               | %                 | ASTM D638   |
| Flexural Modulus <sup>4</sup> (23°C, 50.0 mm Span)                                                                                                    | 2800              | MPa               | ASTM D790   |
| Flexural Strength <sup>5</sup> (Yield, 23°C, 50.0 mm Span)                                                                                            | 130               | MPa               | ASTM D790   |
| Impact                                                                                                                                                | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact (23°C)                                                                                                                            | 85                | J/m               | ASTM D256   |
| Thermal                                                                                                                                               | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)                                                                                      | 195               | °C                | ASTM D648   |
| Glass Transition Temperature                                                                                                                          | 225               | °C                | ASTM E1356  |
| Additional Information                                                                                                                                |                   |                   |             |
| DTUL @ 264psi, ASTM D648, Unannealed, 3.2 mm: > 195 mmThe value listed as Glass Transition Temp, ASTM E1356 was tested in accordance with ASTM D3482. |                   |                   |             |
| NOTE                                                                                                                                                  |                   |                   |             |
| 1.                                                                                                                                                    | 50 mm/min         |                   |             |
| 2.                                                                                                                                                    | 50 mm/min         |                   |             |
| 3.                                                                                                                                                    | 50 mm/min         |                   |             |
| 4.                                                                                                                                                    | 1.3 mm/min        |                   |             |
| 5.                                                                                                                                                    | 1.3 mm/min        |                   |             |

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