

# TUFNYL® SST 60 BLACK

Polyamide 6  
SRF Ltd.

Message:  
Polyamide 6, Un-filled Super Tough, black pigmented material for injection molding

| General Information            |                      |                   |                 |
|--------------------------------|----------------------|-------------------|-----------------|
| Features                       | Ultra High Toughness |                   |                 |
| Appearance                     | Black                |                   |                 |
| Processing Method              | Injection Molding    |                   |                 |
| Physical                       | Nominal Value        | Unit              | Test Method     |
| Specific Gravity               | 1.08                 | g/cm <sup>3</sup> | ASTM D792       |
| Molding Shrinkage - Flow       | 1.3 to 1.5           | %                 | Internal Method |
| Water Absorption (Equilibrium) | 1.0                  | %                 | ASTM D570       |
| Hardness                       | Nominal Value        | Unit              | Test Method     |
| Rockwell Hardness              |                      |                   | ASTM D785       |
| M-Scale                        | 55                   |                   |                 |
| R-Scale                        | 95                   |                   |                 |
| Mechanical                     | Nominal Value        | Unit              | Test Method     |
| Tensile Stress (Yield)         | 40.0                 | MPa               | ISO 527-2       |
| Tensile Strain (Break)         | 100                  | %                 | ISO 527-2       |
| Flexural Modulus               | 1500                 | MPa               | ISO 178         |
| Flexural Stress                | 60.0                 | MPa               | ISO 178         |
| Impact                         | Nominal Value        | Unit              | Test Method     |
| Charpy Notched Impact Strength | 588                  | J/m               | ISO 180         |
| Thermal                        | Nominal Value        | Unit              | Test Method     |
| Melting Temperature            | 210                  | °C                | DSC             |
| Electrical                     | Nominal Value        | Unit              | Test Method     |
| Surface Resistivity            | 1.0E+14              | ohms              | ASTM D257       |
| Volume Resistivity             | 1.0E+15              | ohms · cm         | ASTM D257       |
| Injection                      | Nominal Value        | Unit              |                 |
| Drying Temperature             | 80.0                 | °C                |                 |
| Drying Time                    | 2.0 to 4.0           | hr                |                 |
| Suggested Max Moisture         | < 0.20               | %                 |                 |
| Processing (Melt) Temp         | 280 to 300           | °C                |                 |
| Mold Temperature               | 40.0 to 80.0         | °C                |                 |
| Injection Pressure             | 3.50 to 12.5         | MPa               |                 |
| Injection Rate                 | Fast                 |                   |                 |

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#### Recommended distributors for this material

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