

# TUFNYL® SHS BLACK

Polyamide 6

SRF Ltd.

Message:

Polyamide 6, Un-filled, Heat stabilized, black pigmented material for injection molding

| General Information            |                   |                   |                 |
|--------------------------------|-------------------|-------------------|-----------------|
| Additive                       | Heat Stabilizer   |                   |                 |
| Features                       | Heat Stabilized   |                   |                 |
| Appearance                     | Black             |                   |                 |
| Processing Method              | Injection Molding |                   |                 |
| Physical                       | Nominal Value     | Unit              | Test Method     |
| Specific Gravity               | 1.13              | g/cm <sup>3</sup> | ASTM D792       |
| Molding Shrinkage - Flow       | 1.5 to 1.8        | %                 | Internal Method |
| Water Absorption (Equilibrium) | 2.0               | %                 | ASTM D570       |
| Hardness                       | Nominal Value     | Unit              | Test Method     |
| Rockwell Hardness              | ASTM D785         |                   |                 |
| M-Scale                        | 75                |                   |                 |
| R-Scale                        | 115               |                   |                 |
| Mechanical                     | Nominal Value     | Unit              | Test Method     |
| Tensile Stress (Yield)         | 65.0              | MPa               | ISO 527-2       |
| Tensile Strain (Break)         | 15                | %                 | ISO 527-2       |
| Flexural Modulus               | 2500              | MPa               | ISO 178         |
| Flexural Stress                | 110               | MPa               | ISO 178         |
| Impact                         | Nominal Value     | Unit              | Test Method     |
| Charpy Notched Impact Strength | 49.0              | J/m               | ISO 180         |
| Thermal                        | Nominal Value     | Unit              | Test Method     |
| Melting Temperature            | 220               | °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       |
| Dielectric Strength            | 21                | kV/mm             | ASTM D149       |
| Comparative Tracking Index     | > 600             | V                 | IEC 60112       |
| 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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