

# Tufnyl<sup>®</sup> SXXIC BLACK

## PA6

*Injection Molding, Unreinforced*

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| PROPERTIES                                | TYPICAL DATA      | UNIT  | TEST METHOD       |
|-------------------------------------------|-------------------|-------|-------------------|
| <b>RHEOLOGICAL PROPERTIES</b>             | <b>DRY / COND</b> |       |                   |
| Molding shrinkage [parallel]              | 1.2 / *           | %     | Sim. to ISO 294-4 |
| Molding shrinkage [normal]                | 1.4 / *           | %     | Sim. to ISO 294-4 |
| <b>MECHANICAL PROPERTIES</b>              | <b>DRY / COND</b> |       |                   |
| Tensile modulus                           | 2800 / –          | MPa   | ISO 527-1/-2      |
| Stress at break                           | 45 / –            | MPa   | ISO 527-1/-2      |
| Strain at break                           | 10 / –            | %     | ISO 527-1/-2      |
| Yield stress                              | 75 / –            | MPa   | ISO 527-1/-2      |
| Flexural modulus                          | 2500 / –          | MPa   | ISO 178           |
| Flexural strength                         | 100 / –           | MPa   | ISO 178           |
| Charpy impact strength (+23°C)            | 300 / –           | kJ/m² | ISO 179/1eU       |
| Charpy notched impact strength (+23°C)    | 6 / –             | kJ/m² | ISO 179/1eA       |
| Izod notched impact strength (+23°C)      | 4 / –             | kJ/m² | ISO 180/1A        |
| <b>THERMAL PROPERTIES</b>                 | <b>DRY / COND</b> |       |                   |
| Melting temperature (10°C/min)            | 220 / *           | °C    | ISO 11357-1/-3    |
| Temp. of deflection under load (1.80 MPa) | 55 / *            | °C    | ISO 75-1/-2       |
| <b>OTHER PROPERTIES</b>                   | <b>DRY / COND</b> |       |                   |
| Density                                   | 1120 / –          | kg/m³ | ISO 1183          |

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