

Technical Data Sheet

Sustaglide® black

PA 6 G

Typical characteristics

- Good sliding properties
- Good wear properties
- High hardness
- High rigidity

Typical industries

- Mechanical Engineering Industry
- Food Industry

| | Test method | Unit | Guideline value |
|---|-----------------------------|----------------------|-----------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | 1,14 |
| Water absorption | DIN EN ISO 62 | % | 2,0 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB / HB |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | 75 |
| Elongation at break | DIN EN ISO 527 | % | 35 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | 3400 |
| Notched impact strength | DIN EN ISO 179 | kJ / m ² | 3,5 |
| Shore hardness | DIN EN ISO 868 | scale D | 81 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 215 |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0,25 |
| Thermal capacity | DIN 52612 | kJ / (kg * K) | 1,70 |
| Coefficient of linear thermal expansion | DIN 53752 | 10 ⁻⁶ / K | 80 |
| Service temperature, long term | Average | °C | -40...110 |
| Service temperature, short term (max.) | Average | °C | 160 |
| Heat deflection temperature | DIN EN ISO 75, Verf. A, HDT | °C | 90 |

