

# SUSTAGLIDE PLUS

Polyamide 6  
Röchling Sustaplast SE & Co. KG

- Message:
- Product characteristics
  - Excellent sliding properties
  - Low deformation under pressure load
  - Enhanced wear resistance
  - Typical fields of application
  - Mechanical engineering
  - Steel industry
  - Electrical industry

| General Information                               |                                    |                   |             |
|---------------------------------------------------|------------------------------------|-------------------|-------------|
| Features                                          | Good Wear Resistance               |                   |             |
|                                                   | Low Friction                       |                   |             |
| Uses                                              | Electrical/Electronic Applications |                   |             |
|                                                   | Engineered Applications            |                   |             |
| Physical                                          | Nominal Value                      | Unit              | Test Method |
| Density                                           | 1.18                               | g/cm <sup>3</sup> | ISO 1183    |
| Water Absorption (Equilibrium, 23°C, 50% RH)      | 2.0                                | %                 | ISO 62      |
| Hardness                                          | Nominal Value                      | Unit              | Test Method |
| Shore Hardness (Shore D)                          | 82                                 |                   | ISO 868     |
| Ball Indentation Hardness                         | 180                                | MPa               | ISO 2039-1  |
| Mechanical                                        | Nominal Value                      | Unit              | Test Method |
| Tensile Modulus                                   | 4000                               | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                            | 70.0                               | MPa               | ISO 527-2   |
| Tensile Strain (Break)                            | > 4.0                              | %                 | ISO 527-2   |
| Impact                                            | Nominal Value                      | Unit              | Test Method |
| Charpy Notched Impact Strength                    | > 2.5                              | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                           | Nominal Value                      | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 100                                | °C                | ISO 75-2/A  |
| Continuous Use Temperature                        |                                    |                   |             |
| -- 1                                              | -40.0 to 110                       | °C                |             |
| -- 2                                              | < 170                              | °C                |             |
| Melting Temperature                               | 217                                | °C                | ISO 11357-3 |
| CLTE - Flow                                       | 6.0E-5                             | cm/cm/°C          | DIN 53752   |
| Specific Heat                                     | 1700                               | J/kg/°C           | DIN 52612   |
| Thermal Conductivity                              | 0.25                               | W/m/K             | DIN 52612   |

| Flammability | Nominal Value | Test Method |
|--------------|---------------|-------------|
| Flame Rating |               | UL 94       |
| 3.00 mm      | HB            |             |
| 6.00 mm      | HB            |             |
| NOTE         |               |             |
| 1.           | Long Term     |             |
| 2.           | Short Term    |             |

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