

# SUSTAPEEK GLD 140 FG natural

Polyetheretherketone

Röchling Sustaplast SE & Co. KG

## Message:

Product characteristics

Excellent dimensional stability

Very good sliding properties

Meets the requirements of the regulation (EC) No. 1935/2004 on materials intended to come in contact with food

Typical fields of application

Food industry

| General Information                               |                                |                   |             |
|---------------------------------------------------|--------------------------------|-------------------|-------------|
| Features                                          | Food Contact Acceptable        |                   |             |
|                                                   | Good Dimensional Stability     |                   |             |
|                                                   | Low Friction                   |                   |             |
| Uses                                              | Non-specific Food Applications |                   |             |
| Agency Ratings                                    | EC 1935/2004                   |                   |             |
| Appearance                                        | Natural Color                  |                   |             |
| Physical                                          | Nominal Value                  | Unit              | Test Method |
| Density                                           | 1.36                           | g/cm <sup>3</sup> | ISO 1183    |
| Water Absorption (Equilibrium, 23°C, 50% RH)      | 0.20                           | %                 | ISO 62      |
| Hardness                                          | Nominal Value                  | Unit              | Test Method |
| Shore Hardness (Shore D)                          | 86                             |                   | ISO 868     |
| Ball Indentation Hardness                         | 220                            | MPa               | ISO 2039-1  |
| Mechanical                                        | Nominal Value                  | Unit              | Test Method |
| Tensile Modulus                                   | 3700                           | MPa               | ISO 527-2   |
| Tensile Stress (Yield)                            | 87.0                           | MPa               | ISO 527-2   |
| Tensile Strain (Break)                            | 3.0                            | %                 | ISO 527-2   |
| Impact                                            | Nominal Value                  | Unit              | Test Method |
| Charpy Notched Impact Strength                    | 3.5                            | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                           | Nominal Value                  | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 150                            | °C                | ISO 75-2/A  |
| Continuous Use Temperature                        |                                |                   |             |
| -- 1                                              | -30.0 to 250                   | °C                |             |
| -- 2                                              | < 310                          | °C                |             |
| Melting Temperature                               | 343                            | °C                | ISO 11357-3 |
| CLTE - Flow                                       | 5.5E-5                         | cm/cm/°C          | DIN 53752   |
| Electrical                                        | Nominal Value                  | Unit              | Test Method |
| Surface Resistivity                               | 1.0E+16                        | ohms              | IEC 60093   |

|                   |               |       |             |
|-------------------|---------------|-------|-------------|
| Electric Strength | 20            | kV/mm | IEC 60243-1 |
| Flammability      | Nominal Value | Unit  | Test Method |
| Flame Rating      |               |       | UL 94       |
| 3.00 mm           | V-0           |       |             |
| 6.00 mm           | V-0           |       |             |
| NOTE              |               |       |             |
| 1.                | Long Term     |       |             |
| 2.                | Short Term    |       |             |

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