

# Roechling SUSTAPEEK

Polyetheretherketone  
Röchling Sustaplast SE & Co. KG

Message:

- Product characteristics
- Excellent dimensional stability
- High flame retardance and self-extinguishing
- Very low smoke density
- Typical fields of application
- Medical technology
- Aerospace engineering
- Electrical industry

| General Information                               |                                    |          |             |
|---------------------------------------------------|------------------------------------|----------|-------------|
| Features                                          | Flame Retardant                    |          |             |
|                                                   | Good Dimensional Stability         |          |             |
|                                                   | Self Extinguishing                 |          |             |
| Uses                                              | Aerospace Applications             |          |             |
|                                                   | Electrical/Electronic Applications |          |             |
|                                                   | Medical Devices                    |          |             |
|                                                   | Medical/Healthcare Applications    |          |             |
| Physical                                          | Nominal Value                      | Unit     | Test Method |
| Density                                           | 1.31                               | g/cm³    | ISO 1183    |
| Water Absorption (Equilibrium, 23°C, 50% RH)      | 0.20                               | %        | ISO 62      |
| Hardness                                          | Nominal Value                      | Unit     | Test Method |
| Shore Hardness (Shore D)                          | 88                                 |          | ISO 868     |
| Ball Indentation Hardness                         | 230                                | MPa      | ISO 2039-1  |
| Mechanical                                        | Nominal Value                      | Unit     | Test Method |
| Tensile Modulus                                   | 4000                               | MPa      | ISO 527-2   |
| Tensile Stress (Yield)                            | 110                                | MPa      | ISO 527-2   |
| Tensile Strain (Break)                            | 20                                 | %        | ISO 527-2   |
| Thermal                                           | Nominal Value                      | Unit     | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 152                                | °C       | ISO 75-2/A  |
| Continuous Use Temperature                        |                                    |          |             |
| -- 1                                              | -60.0 to 250                       | °C       |             |
| -- 2                                              | < 310                              | °C       |             |
| Melting Temperature                               | 343                                | °C       | ISO 11357-3 |
| CLTE - Flow                                       | 5.0E-5                             | cm/cm/°C | DIN 53752   |
| Specific Heat                                     | 1340                               | J/kg/°C  | DIN 52612   |

| Thermal Conductivity       | 0.25          | W/m/K   | DIN 52612   |
|----------------------------|---------------|---------|-------------|
| Electrical                 | Nominal Value | Unit    | Test Method |
| Surface Resistivity        | 1.0E+18       | ohms    | IEC 60093   |
| Volume Resistivity         | 4.9E+16       | ohms·cm | IEC 60093   |
| Dielectric Constant        | 3.20          |         | IEC 60250   |
| Dissipation Factor (50 Hz) | 1.0E-3        |         | IEC 60250   |
| 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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