



POLESTAR POLYMERS INDIA PVT. LTD.

An ISO 9001 : 2015 Certified Company

STELLO® K

Technical Data Sheet - Rods, Sheets, Tubes

(Polyether Ether Ketone)

| Properties | Method | Unit | Value |
|---|----------------------------|----------------------|------------------------|
| Density | DIN EN ISO 1183-1 | g/cm ³ | 1,31 |
| Water absorption | DIN EN ISO 62 | % | 0,2 |
| Flammability (Thickness 3mm / 6mm) | UL 94 | | VO / VO |
| Yield stress | DIN EN ISO 527 | MPa | 110 |
| Elongation at break | DIN EN ISO 527 | % | 20 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | 4000 |
| Shore Hardness | DIN EN ISO 868 | Scale D | 88 |
| Melting temperature | ISO 11357-3 | °C | 343 |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0,25 |
| Thermal capacity | DIN 52612 | kJ / (kg * K) | 1,34 |
| Coefficient of linear thermal expansion | DIN 53752 | 10 ⁻⁶ / K | 50 |
| Service temperature - long term | Average | °C | -60 ... 250 |
| Service temperature - short term (max) | Average | °C | 310 |
| Heat deflection temperature | DIN EN ISO 75, Verf.A, HDT | °C | 152 |
| Dielectric constant | IEC 60250 | | 3,2 |
| Dielectric dissipation factor, 50 Hz | IEC 60250 | | 0,001 |
| Volume resistivity | DIN EN 62631-3-1 | Ω * cm | 4,9 * 10 ¹⁶ |
| Surface resistivity | DIN EN 62631-3-2 | Ω | 10 ¹⁸ |
| Dielectric strength | IEC 60243 | kV / mm | 20 |

Note: The information contained herein are typical values intended for reference and comparison purposes only. They should not be used as a basis for design specifications or quality control. POLESTAR POLYMERS INDIA PVT. LTD. will not provide any legally binding guarantee of certain properties or any suitability.

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