

Technical Data Sheet

Polystone[®] M Soft natural extruded

Typical characteristics

- Good sliding properties with soft sliding partners
- Extreme low coefficient of friction
- Very wear resistant

Typical industries

- Mechanical Engineering Industry
- Conveyor Technology & Automation
- Food Industry
- Beverage Industry

| | Test method | Unit | Guideline value |
|---|-------------------------|-----------------------|-----------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | >0,92 |
| Water absorption | DIN EN ISO 62 | % | <0,01 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB |
| Molecular weight | - | 10 ⁶ g/mol | ~ 9 |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | >18 |
| Elongation at break | DIN EN ISO 527 | % | >50 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | >500 |
| Notched impact strength | DIN EN ISO 11542-2 | kJ / m ² | >100 |
| Shore hardness | DIN EN ISO 868 | scale D | >57 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 130 ... 135 |
| Thermal conductivity | DIN 52612-1 | W / (m * K) | 0,40 |
| Thermal capacity | DIN 52612 | kJ / (kg * K) | 1,90 |
| Coefficient of linear thermal expansion | DIN 53752 | 10 ⁻⁶ / K | 150 ... 230 |
| Service temperature, long term | Average | °C | -250 ... 80 |
| Service temperature, short term (max.) | Average | °C | 130 |
| Vicat softening temperature | DIN EN ISO 306, Vicat B | °C | 79 |
| Electrical properties | | | |

Röchling Industrial SE & Co. KG

Röchlingstr. 1 • 49733 Haren (Ems)/Germany (DE) • Tel. +49 5934 701-0
 info@roechling-plastics.com • www.roechling.com/industrial/haren

Print: 03/05/2024 • Release: 20/09/2023 • Version: 2.0

PIM-Version: 385 • PIM-ID: 718529 • PIM-Code: 385-27-10.11.11-5.11.5.5-5



| | Test method | Unit | Guideline value |
|---------------------|------------------|----------|-------------------|
| Volume resistivity | DIN EN 62631-3-1 | Ohm * cm | >10 ¹⁴ |
| Surface resistivity | DIN EN 62631-3-2 | Ohm | >10 ¹⁴ |
| Dielectric strength | IEC 60243 | kV / mm | >40 |

The data stated above are average values ascertained by statistical tests on a regular basis. They are in accordance with DIN EN 15860. The data above are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.



Röchling Industrial SE & Co. KG

Röchlingstr. 1 • 49733 Haren (Ems)/Germany (DE) • Tel. +49 5934 701-0
 info@roechling-plastics.com • www.roechling.com/industrial/haren

Print: 03/05/2024 • Release: 20/09/2023 • Version: 2.0
 PIM-Version: 385 • PIM-ID: 718529 • PIM-Code: 385-27-10.11.11-5.11.5.5-5

