

Polietileno PE-500

| General properties | | Test method | |
|---|-------------------------|----------------------------------|-------------------|
| Density | DIN EN ISO 1183-1 | g/cm3 | 0,96 |
| Water absorption | DIN EN ISO 62 | % | <0.01 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | N/mm2 | 27 |
| Elongation at break | DIN EN ISO 527 | % | >50 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | 1200 |
| Notched impact strength (charpy) | DIN EN ISO 179 | kJ/m2 | no break |
| Shore hardness | DIN EN ISO 868 | scale D | 65 |
| Thermal properties | | | |
| Melting temperature | ISO 11357-3 | °C | 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 ⁻¹ | 150-230 |
| Service temperature, long term | Average | °C | -100...80 |
| Service temperature, short term (max.) | Average | °C | 100 |
| Heat deflection temperature | DIN EN ISO 306, Vicat B | °C | 79 |
| Electrical properties | | | |
| Dielectric constant | IEC 60250 | | 2,3 |
| Dielectric dissipation factor (106Hz) | IEC 60250 | | 0,0002 |
| Volume resistivity | IEC 60093 | Ω *cm | >10 ¹⁴ |
| Surface resistivity | IEC 60093 | Ω | >10 ¹⁴ |
| Comparative tracking index | IEC 60112 | | 600 |
| Dielectric strength | IEC 60243 | kV/mm | 45 |

Product characteristics

- Excellent mechanical properties
- Very wear, cutting and scratch resistant
- Physiologically safe

Typical field of application

- Environmental and disposal technology
- Lining technology
- Cutting boards
- Food industry

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.