

TECHNICAL DATA: POLYETHYLENE

DISTRIBUTION BOX POLYETHYLENE TECHNICAL DATA

| General properties | | | |
|--|----------------------|----------------------------------|--------------------------|
| Density | 0.96 | g/cm ³ | DIN EN ISO 1183-1 |
| Flammability | HB/HB | 3 mm / 6 mm | UL 94 |
| Absorption of moisture | <0.01 | % | DIN EN ISO 62 |
| Mechanical properties | | | |
| Yield stress/ tensile strength | 22 | MPa | DIN EN ISO 527 |
| Tensile elongation | >50 | % | DIN EN ISO 527 |
| Tensile modulus of elasticity | 800 | MPa | DIN EN ISO 527 |
| Notched impact strength (Charpy) | 10 | kJ/m ² | DIN EN ISO 179 |
| Shore hardness | 63 | Skala D | DIN EN ISO 868 |
| Thermal properties | | | |
| Melting temperature | 162 – 165 | °C | ISO 11357-3 |
| Thermal conductivity | 0.20 | W / (m · K) | DIN 52612-1 |
| Specific thermal capacity | 1.70 | kJ / (kg · K) | DIN 52612 |
| Coefficient of linear thermal expansion | 120 – 190 | 10 ⁻⁶ K ⁻¹ | DIN 53752 |
| Service temperature, long term (min.) | -30 | °C | Benchmarks |
| Service temperature, long term (max.) | 100 | °C | Benchmarks |
| Service temperature, short term | 150 | °C | Benchmarks |
| Heat deflection temperature | 85 | °C | DIN EN ISO 306 (Vicat B) |
| Electrical properties | | | |
| Dielectric constant | 2.50 | | DIN IEC 60250 |
| Dielectric dissipation factor | 1.9*10 ⁻⁴ | | DIN IEC 60250 |
| Specific volume resistivity | >10 ¹⁴ | Ω · cm | DIN IEC 60093 |
| Surface resistivity | >10 ¹³ | Ω | DIN VDE 0303-3 |
| Comparative tracking index (test solution A) | 600 | | DIN EN 60112 |
| Dielectric strength | 45 | kV/mm | DIN EN 60243 |