

Technical Data Sheet

Robalon® L

PE-HD / PE 500

Typical characteristics

- Good mechanical properties
- Good wear resistance
- Good cutting resistance
- High scratch resistance
- Good sliding properties

Typical industries

- Alpine Industry

| | Test method | Unit | Guideline value |
|---|-------------------------|----------------------|-----------------------|
| General properties | | | |
| Density | DIN EN ISO 1183-1 | g / cm ³ | 0,95 |
| Water absorption | DIN EN ISO 62 | % | 0,01 |
| Flammability (Thickness 3 mm / 6 mm) | UL 94 | | HB/HB |
| Molecular weight | | g/mol | 0,5 * 10 ⁶ |
| Color | | | black / natural |
| Mechanical properties | | | |
| Yield stress | DIN EN ISO 527 | MPa | 25 |
| Elongation at break | DIN EN ISO 527 | % | >200 |
| Tensile modulus of elasticity | DIN EN ISO 527 | MPa | >900 |
| Notched impact strength | DIN EN ISO 179/1eA | kJ / m ² | 53 |
| Shore hardness | DIN EN ISO 868 / 15 sec | scale D | 62 |
| Thermal properties | | | |
| Melting temperature | DIN EN ISO 3146 | °C | 135 |
| Thermal conductivity | DIN EN ISO 22007 | W / (m * K) | 0,51 |
| Thermal capacity | DIN EN ISO 22007 | kJ / (kg * K) | 1,76 |
| Coefficient of linear thermal expansion | DIN 53752 | 10 ⁻⁶ / K | 100-120 |
| Service temperature, long term | Average | °C | -100 ... 80 |
| Service temperature, short term (max.) | Average | °C | 100 |
| Electrical properties | | | |

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| | Test method | Unit | Guideline value |
|---------------------|------------------|--------------------------|-----------------|
| Volume resistivity | DIN EN 62631-3-1 | $\Omega \cdot \text{cm}$ | $>10^{14}$ |
| Surface resistivity | DIN EN 62631-3-2 | Ω | $>10^{14}$ |

The data given are standard values which are based on our experience & previous technical studies. These values are influenced by the design, processing conditions and environmental influences out of our control. The sustainability of the material for a given application is the responsibility of the user. Typing and printing errors reserved.



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Print: 07/05/2026 • Release: 02/05/2024 • Version: 4.0
PIM-ID: 709741 • PIM-Code: 55-11-17.143.9.23.223-8-4
Company-IDs: 21510

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