

## Technical Data Sheet

# Robalon® L

### Typical characteristics

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

### Typical industries

- Горнолыжная отрасль

|   | Test method             | Unit                 | Guideline value       |
|---|-------------------------|----------------------|-----------------------|
| <b>General properties</b>               |                         |                      |                       |
| Density                                 | DIN EN ISO 1183-1       | g / cm <sup>3</sup>  | 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 <sup>6</sup> |
| Color                                   |                         |                      | black / natural       |
| <b>Mechanical properties</b>            |                         |                      |                       |
| 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 <sup>2</sup>  | 53                    |
| Shore hardness                          | DIN EN ISO 868 / 15 sec | scale D              | 62                    |
| <b>Thermal properties</b>               |                         |                      |                       |
| 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 <sup>-6</sup> / K | 100-120               |
| Service temperature, long term          | Average                 | °C                   | -100 ... 80           |
| Service temperature, short term (max.)  | Average                 | °C                   | 100                   |
| <b>Electrical properties</b>            |                         |                      |                       |

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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 | $\Omega$                 | $>10^{14}$      |

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.

