

## Technical Data Sheet

### Robalon<sup>®</sup> 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
<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>			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 <sup>14</sup>

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	Test method	Unit	Guideline value
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.



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