

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			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	>10 ¹⁴

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	Test method	Unit	Guideline value
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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Page 2 / 2 (Dates in DD/MM/YYYY)

