

## Technical Data Sheet

# Robalit 61

PE-UHMW / PE 1000

### Typical characteristics

- Good sliding properties
- Good wear properties
- Low specific weight
- Chemical resistant
- High impact resistance
- High stiffness

### Typical industries

- Paper Industry

	Test method	Unit	Guideline value
<b>General properties</b>			
Density	DIN EN ISO 1183-1	g / cm <sup>3</sup>	0,93
Water absorption	DIN EN ISO 62	%	0,01
Flammability (Thickness 3 mm / 6 mm)	UL 94		HB / HB
Molecular weight		g/mol	9,2 * 10 <sup>6</sup>
Color			grey
<b>Mechanical properties</b>			
Yield stress	DIN EN ISO 527	MPa	18
Elongation at break	DIN EN ISO 527	%	>280
Tensile modulus of elasticity	DIN EN ISO 527	MPa	580
Notched impact strength	DIN EN ISO 179/1eA	kJ / m <sup>2</sup>	>90
Shore hardness	DIN EN ISO 868 / 15 sec	scale D	63
<b>Thermal properties</b>			
Melting temperature	DIN EN ISO 3146	°C	135
Thermal conductivity	DIN EN ISO 8302	W / (m * K)	0,41
Thermal capacity	DIN 51005	kJ / (kg * K)	1,84
Coefficient of linear thermal expansion	DIN 53752	10 <sup>-6</sup> / K	200
Service temperature, long term	Average	°C	-200 ... 80
Service temperature, short term (max.)	Average	°C	110
<b>Electrical properties</b>			

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	Test method	Unit	Guideline value
Volume resistivity	DIN EN 62631-3-1	$\Omega \cdot \text{cm}$	$10^{10}$
Surface resistivity	DIN EN 62631-3-2	$\Omega$	$10^{10}$
Comparative tracking index	IEC 60112		600

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.

Chemical properties: chemically resistant to all aggressive media with the exception of highly oxidising acids. High resistant to corrosion. This material is resistant to all standard chemicals used in paper production, felt/wire cleaning and corrosion inhibition.



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