Röchling

Industrial

Technical Data Sheet

Robacoat PB

[Premium material for extreme conditions]

Product characteristics

- High chemical resistance
- Excellent sliding and wear behaviour
- Very high impact strength and stiffness

Product applications

- Paper industry / coating units

	Test method	Unit	Guideline Value
General properties			
Density	DIN EN ISO 1183-1	g / cm^3	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 * 10^6
Color			grey
Mechanical properties			
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^2	>90
Shore hardness	DIN EN ISO 868 / 15 sec	scale D	63
Thermal properties			
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^{-6} / K	200
Service temperature, long term	Average	°C	-200 ... 80
Service temperature, short term (max.)	Average	°C	110
Electrical properties			
Volume resistivity	DIN EN 62631-3-1	Ω * cm	10^{10}
Surface resistivity	DIN EN 62631-3-2	Ω	10^{10}
Comparative tracking index	IEC 60112		600

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.

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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INTEGRATED MANAGEMENT SYSTEM