

Technical data sheet

KOTERM HX-SLIDE (UHMWPE)

Key benefits

Superior abrasion and wear resistance
Very low friction with superior sliding
Withstands loads as hot as 180 °C

General application

Lining

	Test method	Unit	Value
General properties			
Density	DIN 53479	g/cm ³	0,96
Molecular weight		10 ⁶ g/mol	9
Mechanical Properties			
Tensile modulus	ISO 527	MPa	850
Yield stress	ISO 527	MPa	> 17
Tensile strength at break	ISO 527	MPa	> 25
Elongation at break	ISO 527	%	> 50
Charpy notched impact strength at 23°C	ISO 179	kJ/m ²	nb
Charpy unnotched impact strength at 23°C	ISO 179	kJ/m ²	nb
Charpy impact strength with 15° V-notch	ISO 179	kJ/m ²	
Hardness	ISO 868	Shore D	68
Wear resistance	Sand-Slurry		75
Thermal properties			
Melting temperature	DIN 53736	°C	130-135
Thermal conductivity	DIN 52612	W/(m·K)	0,4
Coefficient of linear thermal expansion (CLTE)	DIN 53752	K ⁻¹	1,5-2,0×10 ⁻⁴
Vicat softening temperature - A50	ISO 306/A50	°C	
Vicat softening temperature - B50	ISO 306/B50	°C	80
Service temperature (intermittent)		°C	
Service temperature (long term)		°C	-200...80
Electrical properties			
Volume resistivity	DIN IEC 60093	Ω·cm	> 10 ¹²
Surface resistivity	DIN IEC 60093	Ω	> 10 ¹²
Dielectric strength	DIN 53481	kV/mm	45
Other properties			
Dynamic coefficient of friction			0,09-0,17
Flammability (thickness 3 mm)	UL94		HB

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