

Technical data sheet

KOTERM PEHD RKB

Key benefits

Reprocessed material

General application

General usage

	Test method	Unit	Value
General properties			
Density	DIN 53479	g/cm ³	> 0,95
Molecular weight		10 ⁶ g/mol	
Mechanical Properties			
Tensile modulus	ISO 527	MPa	> 900
Yield stress	ISO 527	MPa	> 20
Tensile strength at break	ISO 527	MPa	
Elongation at break	ISO 527	%	> 50
Charpy notched impact strength at 23°C	ISO 179	kJ/m ²	
Charpy unnotched impact strength at 23°C	ISO 179	kJ/m ²	
Charpy impact strength with 15° V-notch	ISO 179	kJ/m ²	> 20
Hardness	ISO 868	Shore D	62-68
Wear resistance	Sand-Slurry		
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	
Service temperature (intermittent)		°C	
Service temperature (long term)		°C	-40...80
Electrical properties			
Volume resistivity	DIN IEC 60093	Ω·cm	
Surface resistivity	DIN IEC 60093	Ω	
Dielectric strength	DIN 53481	kV/mm	
Other properties			
Dynamic coefficient of friction			0,1-0,2
Flammability (thickness 3 mm)	UL94		HB

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