Technical data sheet

KOTERM FUNICE

Key benefits

Excellent sliding properties
UV stabilized
Balanced mechanical properties

General application

Skating panels

	Test method	Unit	Value
General properties			
Density	DIN 53479	g/cm^3	0,96
Molecular weight		10^6 g/mol	
Mechanical Properties			
Tensile modulus	ISO 527	MPa	1200
Yield stress	ISO 527	MPa	27
Tensile strength at break	ISO 527	MPa	
Elongation at break	ISO 527	%	> 250
Charpy notched impact strength at 23°C	ISO 179	kJ/m2	nb
Charpy unnotched impact strength at 23°C	ISO 179	kJ/m2	nb
Charpy impact strength with 15° V-notch	ISO 179	kJ/m2	
Hardness	ISO 868	Shore D	65
Wear resistance	Sand-Slurry		
Thermal properties			
Melting temperature	DIN 53736	°C	135
Thermal conductivity	DIN 52612	W/(m·K)	0,4
Coefficient of linear thermal expansion (CLTE)	DIN 53752	K^{-1}	$1,5\text{-}2,2\times10^{-4}$
Vicat softening temperature - A50	ISO 306/A50	°C	132
Vicat softening temperature - B50	ISO 306/B50	°C	80
Service temperature (intermittent)		°C	100
Service temperature (long term)		°C	-50…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
Water absorption	24h/RT	%	<0,01
Dynamic coefficient of friction			
Flammability (thickness 3 mm)	UL94		HB