Technical data sheet

KOTERM PPH74

Key benefits

Rigid and high strength
Chemical and corrosion resistant
Physiologically safe

General application

Industrial application
Chemical technology
Cutting boards

	Test method	Unit	Value
General properties			
Density	DIN 53479	g/cm^3	0,91
Molecular weight		10^6 g/mol	
Mechanical Properties			
Tensile modulus	ISO 527	MPa	1600
Yield stress	ISO 527	MPa	36
Tensile strength at break	ISO 527	MPa	
Elongation at break	ISO 527	%	> 50
Charpy notched impact strength at 23°C	ISO 179	kJ/m2	7
Charpy unnotched impact strength at 23°C	ISO 179	kJ/m2	
Charpy impact strength with 15° V-notch	ISO 179	kJ/m2	
Hardness	ISO 868	Shore D	75
Wear resistance	Sand-Slurry		
Thermal properties			
Melting temperature	DIN 53736	°C	165
Thermal conductivity	DIN 52612	W/(m·K)	0,22
Coefficient of linear thermal expansion (CLTE)	DIN 53752	K^{-1}	1,3-1,8×10^{-4}
Vicat softening temperature - A50	ISO 306/A50	°C	
Vicat softening temperature - B50	ISO 306/B50	°C	95
Service temperature (intermittent)		°C	135
Service temperature (long term)		°C	0…100
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

The information data contained herein is believed to be reliable to the best of our knowledge but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom, and it is the end user responsibility to make its own determination of the product suitability for the intended applications.