

Datasheet AEPE1000



AEPE1000 has proven itself in the beverage and packaging industries. AEPE1000 is used in the manufacture of star conveyor devices, guide rollers and deflector rollers for bottling of labelling machines. Also used for bearing boxes, rubber strips, sliding rails/tables and screw conveyors etc. AEPE1000 has also good chemical resistance and has a high viscosity.

Application

Construction material for almost every type of industry

Material

Polyethyleen UHMW.

Availability

	Value	Unit
Rod diameters	on request	
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	on request	
Sheet thickness	6-200	mm
Sheet size	1000-6000	mm



AEPE1000 - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183-1	0,96	g/cm ³
Thermal conductivity		on request	
Specific heat capacity		on request	
Moisture absorption at 23°C, 50% RH		on request	
Water absorption at 23 °C	ISO 62	< 0,01	%
Flammability	UL 94	HB	[-]

Mechanical properties

	Test standard	Value	Unit
Yield stress		on request	
Elongation at break	ISO 527-2	>300	%
Modulus of elasticity in tension	ISO 527-2	>700	MPa
Bending modulus		on request	
Flexural strength		on request	
Charpy impact strength +23°C		on request	
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Ball indentation hardness	ISO 2039-1	>30	MPa
Compressive modulus		on request	

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-200	°C
Max. working temperature		80	°C
Intermittent working temperature		90	°C
Heat distortion temperature		on request	
Melting temperature	ISO 11357	130-135	°C
Thermal coefficient of linear expansion		on request	

Friction properties

	Test standard	Value	Unit
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Electrical properties

	Test standard	Value	Unit
Dielectric constant		on request	
Dielectric loss factor		on request	
Dielectric strength	IEC 60243	<45	kV/mm
Dielectric constant at 1MHZ		on request	
Volume resistivity		on request	
Surface resistivity	IEC 60093	> 10 ¹²	Ω

Electrical properties

Resistance to tracking (CTI)		on request	
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