

## Datasheet AEPE500



AEPE500 is manufactured in sintering presses using high-molecular-weight raw materials. It's used in a wide variety of shapes and colors in various industries. In addition to its good sliding characteristics, its good abrasion resistance is helpful in many different applications.

### Application

Food industry, packaging and material handling, mechanical and plant engineering

### Material

Polyethylene 500.

### 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	2000-6000x1000-2500	mm



## AEPE500 - Specifications

### Physical properties

	Test standard	Value	Unit
Density	ISO 1183-1	0,96	g/cm <sup>3</sup>
Thermal conductivity	DIN 52612	0,4	W/m°K
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
Hardness	ISO 868	63-65	SHORE D
Yield stress		on request	
Elongation at break	ISO 527-2	>500	%
Modulus of elasticity in tension	ISO 527-2	>800	MPa
Bending modulus		on request	
Flexural strength		on request	
Charpy impact strength +23°C		on request	
Charpy notched impact strength +23°C		on request	
Ball indentation hardness	ISO 2039-1	>35	MPa
Compressive modulus		on request	

### Thermal properties

	Test standard	Value	Unit
Min. working temperature		-100	°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	

Electrical properties

Surface resistivity	IEC 60093	< 10 <sup>12</sup>	Ω
Resistance to tracking (CTI)		on request	