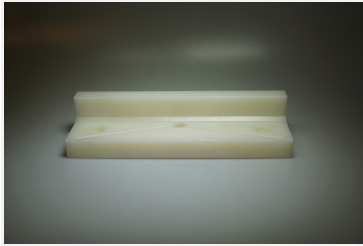


## Datasheet AE250PE



AE250PE is developed for high demanding slip applications. AE250PE has lower friction contribution and is resistant to wear and tear due its first class tribological properties. It's having a clearly lower slip-stick effect comparing to oil-filled cast Nylon. This is a requirement for jerk-free slip which is particularly important in the case of cranes under load. Also, its needs less energy to put components in motion such as telescopic extensions of cranes.

## Application

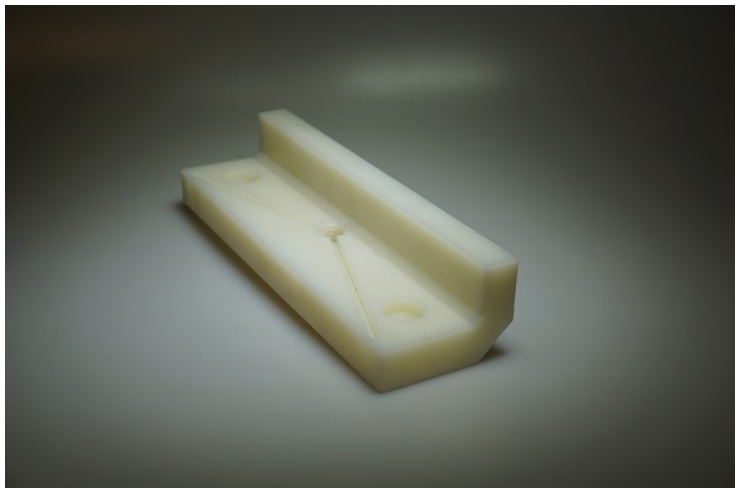
Gripper rods in weaving machines, bushes for brake linkages of bogies for freight wagons, gliding and wear pads in the crane industry.

## Material

Polyamide 6.6 with Polyethylene

## Availability

	Value	Unit
Rod diameters	6-150	mm
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	3000	mm
Sheet thickness	aug-60	mm
Sheet size	1000x2000	mm



## AE250PE - Specifications

### Physical properties

	Test standard	Value	Unit
Density		1,12	g/cm <sup>3</sup>
Thermal conductivity		on request	
Specific heat capacity	IEC 1006	1,7	J/g.K
Moisture absorption at 23°C, 50% RH	ISO 62	2,2	%
Water absorption at 23 °C	ISO 62	8,5	%
Flammability	UL 94	HB	[-]

### Mechanical properties

	Test standard	Value	Unit
Hardness	ISO 868	80	SHORE-D
Yield stress	ISO 527	64	MPa
Elongation at break	ISO 527	12	%
Modulus of elasticity in tension	ISO 527	2700	MPa
Bending modulus	Flexural test	2600	MPa
Flexural strength	ISO 178	100	MPa
Charpy impact strength +23°C	ISO 179/1eU	35	kJ/m <sup>2</sup>
Charpy notched impact strength +23°C	ISO/1eA	3	kJ/m <sup>2</sup>
Ball indentation hardness		on request	
Compressive modulus	ISO 604	2200	MPa

### Thermal properties

	Test standard	Value	Unit
Min. working temperature		-30	°C
Max. working temperature		85	°C
Intermittent working temperature		120	°C
Heat distortion temperature	Method A ISO 75	80	°C
Melting temperature		on request	
Thermal coefficient of linear expansion	DIN 53752	9	1/K.10-5

### 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 243	25	KV/mm
Dielectric constant at 1MHZ	IEC 250	3,3	[-]
Volume resistivity	IEC 93	10 <sup>15</sup>	Ω.cm

Electrical properties

Surface resistivity	IEC 93	10 <sup>13</sup>	Ω
Resistance to tracking (CTI)	DIN EN 60112	600	[-]