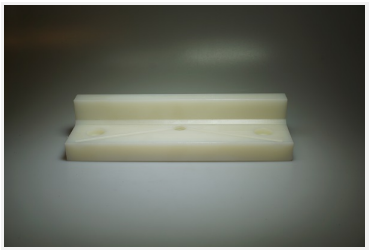
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Datasheet AE250PE



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.

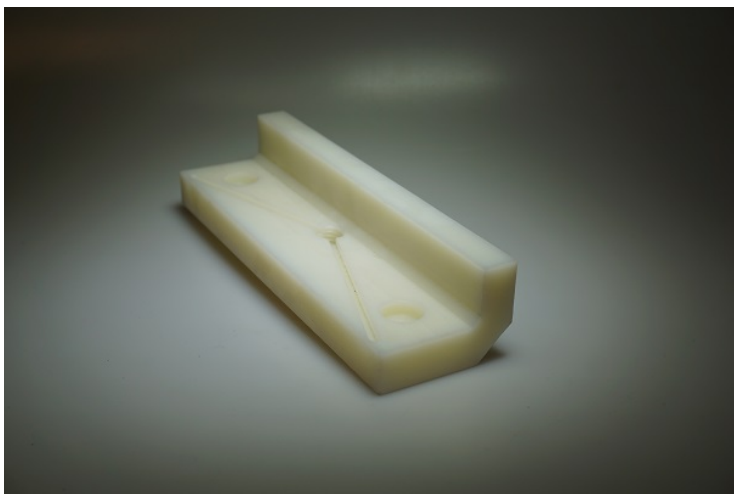
Material

Polyamide 6.6 with Polyethylene

Availablity

	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





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AE250PE - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,12	g/cm³
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/m²
Charpy notched impact strength +23°C	ISO/1eA	3	kJ/m²
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

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^{15}	Ω.cm

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Electrical properties

Surface resistivity	IEC 93	10^{13}	Ω
Resistance to tracking (CTI)	DIN EN 60112	600	[-]

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