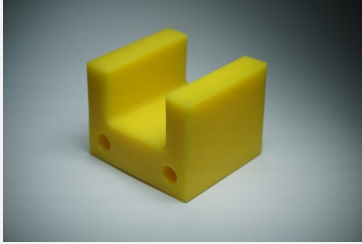


Datasheet AE1100OIL



AE1100OIL has integrated lubrication for a self-lubricating effect. It also improves wear resistance.

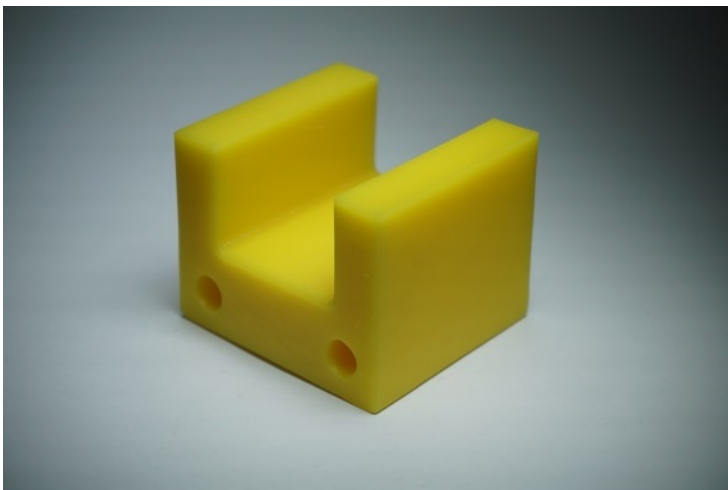
Application

Material

Cast nylon polyamide 6 + oil.

Availability

	Value	Unit
Rod diameters	30-800	mm
Tube inside diameter	30-840	mm
Tube outside diameter	50-880	mm
Length standard	1000/2000	mm
Sheet thickness	8-165	mm
Sheet size	1000/1220x1000/2000/3050	mm



AE1100OIL - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,14	g/cm ³
Thermal conductivity	Method A	0,23	W/m ^{°K}
Specific heat capacity	IEC 1006	1,7	J/g.K
Moisture absorption at 23°C, 50% RH	ISO 62	1,8	%
Water absorption at 23 °C	ISO 62	5,5	%
Flammability	UL 94	HB	[-]

Mechanical properties

	Test standard	Value	Unit
Yield stress	ISO 527	80	MPa
Elongation at break	ISO 527	50	%
Modulus of elasticity in tension	ISO 527	2500	MPa
Bending modulus	Flexural test	2800	MPa
Flexural strength	ISO 178	135	MPa
Charpy impact strength +23°C	ISO 179/1eU	no break	kJ/m ²
Charpy notched impact strength +23°C	ISO/1eA	>5	kJ/m ²
Ball indentation hardness	ISO 2039	140	N/mm ²
Compressive modulus		on request	

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-40	°C
Max. working temperature		105	°C
Intermittent working temperature		160	°C
Heat distortion temperature		on request	
Melting temperature	ISO 3146	220	°C
Thermal coefficient of linear expansion	DINB 53752	7 - 8	1/K.10-5

Friction properties

	Test standard	Value	Unit
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Electrical properties

	Test standard	Value	Unit
Dielectric constant	DIN 53483	3,7	[-]
Dielectric loss factor	DIN 53483	0,03	[-]
Dielectric strength	IEC 243	50	KV/mm
Dielectric constant at 1MHZ	IEC 250	3,7	[-]
Volume resistivity	IEC 93	10 ¹⁵	Ω.cm
Surface resistivity	IEC 93	10 ¹³	Ω

Electrical properties

Resistance to tracking (CTI)	DIN EN 60112	600	[-]
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The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.

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