

Datasheet AE900H



Due to a higher degree of crystallinity AE900H becomes a higher density and hardness. Also it becomes a higher strength and better creep resistance.

Application

Medical, pumps, chemical equipment, sport equipment and automotive.

Material

POM-H.

Availability

	Value	Unit
Rod diameters	on request	
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	on request	
Sheet thickness	on request	
Sheet size	on request	



AE900H - Specifications

Physical properties

	Test standard	Value	Unit
Density		on request	
Thermal conductivity		on request	
Specific heat capacity		on request	
Moisture absorption at 23°C, 50% RH	ISO 62	0,2	%
Water absorption at 23 °C	ISO 62	0,8	%
Flammability	UL 94	HB	[-]

Mechanical properties

	Test standard	Value	Unit
Tensile strength	ISO 527	76	MPa
Hardness	ISO 868	84	SHORE-D
Yield stress	ISO 527	76	MPa
Elongation at break	ISO 527	38	%
Modulus of elasticity in tension	ISO 527	3400	MPa
Bending modulus	Flexural test	3000	MPa
Flexural strength		on request	
Charpy impact strength +23°C	ISO 179/1eU	no break	kJ/m ²
Charpy notched impact strength +23°C	ISO/1eA	11	kJ/m ²
Ball indentation hardness		on request	
Compressive modulus		on request	

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-50	°C
Max. working temperature		90	°C
Intermittent working temperature		150	°C
Heat distortion temperature	Method A ISO 75	100	°C
Melting temperature	ISO 3146	178	°C
Thermal coefficient of linear expansion	DIN 53752	10	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		on request	
Dielectric constant at 1MHZ	IEC 250	3,8	[-]

Electrical properties

Volume resistivity	IEC 93	10^{14}	$\Omega \cdot \text{cm}$
Surface resistivity	IEC 93	10^{14}	Ω
Resistance to tracking (CTI)		on request	

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