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Datasheet AE900XUELS



ASXUELS has a 50% reduce of stiffness and yield strength. But the important properties of POM-C remains unchanged.

Application

Material

POM conductive.

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-50	mm
Sheet size	1000X2000	mm



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AE900XUELS - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,41	g/cm³
Thermal conductivity	Method A	0,4	W/m°K
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	70	MPa
Hardness	ISO 868	80	SHORE-D
Yield stress		on request	
Elongation at break	ISO 527	11	%
Modulus of elasticity in tension	ISO 527	3100	MPa
Bending modulus		on request	
Flexural strength		on request	
Charpy impact strength +23°C	ISO 179/1eU	70	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	3,4	kJ/m²
Ball indentation hardness		on request	
Compressive modulus		on request	

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-40	°C
Max. working temperature		90	°C
Intermittent working temperature		100	°C
Heat distortion temperature	Method A ISO 75	125	°C
Melting temperature	ISO 3146	175	°C
Glass transition temperature	ISO 3146	-60	°C
Thermal coefficient of linear expansion	DIN 53752	13	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		on request	

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Electrical properties

Dielectric constant at 1MHZ		on request	
Volume resistivity	IEC 93	10^{4}	Ω.cm
Surface resistivity	IEC 93	10^{4}	Ω
Resistance to tracking (CTI)		on request	

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