

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.

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-50	mm
Sheet size	1000X2000	mm



AE900XUELS - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,41	g/cm ³
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/m ²
Charpy notched impact strength +23°C	ISO/1eA	3,4	kJ/m ²
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
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Electrical properties

	Test standard	Value	Unit
Dielectric constant		on request	
Dielectric loss factor		on request	
Dielectric strength		on request	

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	