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Datasheet AE900GF30

AE900GF30 Is reinforced with glass fiber. It is increased stiffness and dimensional stability, increased hardness, and modulus of elasticity. It also reduces humidity absorption.

Application

Material

Pom with glass fibre.

Availablity

	Value	Unit
Rod diameters	16-90	mm
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	3000	mm
Sheet thickness	okt-25	mm
Sheet size	1000x2000	mm

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AE900GF30 - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,58	g/cm³
Thermal conductivity		on request	
Specific heat capacity		on request	
Moisture absorption at 23°C, 50% RH		on request	
Water absorption at 23 °C		on request	
Flammability	UL 94	HB	[-]

Mechanical properties

	Test standard	Value	Unit
Tensile strength	ISO 527	135	MPa
Yield stress		on request	
Elongation at break	ISO 527	2,5	%
Modulus of elasticity in tension	ISO 527	9200	MPa
Bending modulus		on request	
Flexural strength		on request	
Charpy impact strength +23°C	ISO 179/1eU	30	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	8	kJ/m²
Ball indentation hardness		on request	
Compressive modulus		on request	

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-20	°C
Max. working temperature		100	°C
Intermittent working temperature		140	°C
Heat distortion temperature		on request	
Melting temperature		on request	
Thermal coefficient of linear expansion	DIN 53752	4- 8	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	50	KV/mm
Dielectric constant at 1MHZ		on request	
Volume resistivity	IEC 93	10^{14}	Ω.cm

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Electrical properties

Surface resistivity	IEC 93	10^{12}	Ω
Resistance to tracking (CTI)		on request	

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