

ASEC Products Marketing 17 6921 RE Duiven The Netherlands T. +31 316 84 44 01 info@asecproducts.com www.asecproducts.com

Datasheet AE350XF



AE350XF has "Polyamide-like" properties and convinces through very good elasticity. This Co-Polymer has a very high viscosity and keeps its high impact resistance even at low temperatures under dry conditioning and takes up water 50% less than Polyamide 6. AE350XF is a complete new and partly bio-based Co-Polymer.

Application

Material

Bio based engineering plastic co-polymer "polyamide-like".

Availablity

	Value	Unit
Rod diameters	30-150	mm
Tube inside diameter	100	mm
Tube outside diameter	150	mm
Length standard	3000	mm
Sheet thickness	okt-40	mm
Sheet size	1000x2000	mm

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AE350XF - Specifications

Physical properties

	Test standard	Value	Unit
Density	ISO 1183	1,07	g/cm³
Thermal conductivity	METHOD A	0,3	W/m°K
Specific heat capacity	IEC 1006	1,7	J/g.K
Moisture absorption at 23°C, 50% RH	ISO 62	2,1	%
Water absorption at 23 °C	ISO 62	6	%
Flammability	UL 94	НВ	[-]

Mechanical properties

	Test standard	Value	Unit
Tensile strength	ISO 527	1900	MPa
Hardness	ISO 868	76	SHORE D
Yield stress	ISO 527	57	MPa
Elongation at break	ISO 527	>300	%
Modulus of elasticity in tension		on request	
Bending modulus	Flexural test	1659	MPa
Flexural strength	ISO 178	67,2	MPa
Charpy impact strength +23°C		on request	
Charpy notched impact strength +23°C	ISO 179/1eA	7,2	kJ/m²
Ball indentation hardness	ISO 2039-1	79,5	N/mm²
Compressive modulus	ISO 604	1647	MPa

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-50	°C
Max. working temperature		90	°C
Intermittent working temperature		160	°C
Heat distortion temperature	Method A ISO 75	80	°C
Melting temperature	ISO 3146	199	°C
Thermal coefficient of linear expansion		on request	

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	34	KV/mm
Dielectric constant at 1MHZ	IEC 250	3,1	[-]

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Electrical properties

Volume resistivity	IEC 93	10 14	Ω.cm
Surface resistivity	IEC 93	10 ¹⁵	Ω
Resistance to tracking (CTI)		on request	

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