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Datasheet AE250HVF



AE250HVF is a high impact Nylon which maintained even at low temperatures. Is particularly suitable for recoil-free hammer heads.

Application

Particularly suitable for recoil-free hammer heads

Material

Polyamide 6.6 High Impact.

Availablity

	Value	Unit
Rod diameters	10-100	mm
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	on request	
Sheet thickness	on request	
Sheet size	on request	

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AE250HVF - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,09	g/cm³
Thermal conductivity		on request	
Specific heat capacity		on request	
Moisture absorption at 23°C, 50% RH	ISO 62	2,2	%
Water absorption at 23 °C	ISO 62	7	%
Flammability		on request	

Mechanical properties

	Test standard	Value	Unit
Hardness	ISO 868	80	SHORE-D
Yield stress	ISO 527	60	MPa
Elongation at break	ISO 527	32	%
Modulus of elasticity in tension	ISO 527	2000	MPa
Bending modulus	Flexural test	2300	MPa
Flexural strength	ISO 178	110	MPa
Charpy impact strength +23°C	ISO 179/1eU	no break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	80	kJ/m²
Ball indentation hardness	ISO 2039-1	165	N/mm²
Compressive modulus	ISO 604	2800	MPa

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-30	°C
Max. working temperature		90	°C
Intermittent working temperature		160	°C
Heat distortion temperature	Method A ISO 75	70	°C
Melting temperature	ISO 3146	263	°C
Glass transition temperature	ISO 3146	60	°C
Thermal coefficient of linear expansion	DIN 53752	10	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	27	KV/mm
Dielectric constant at 1MHZ	IEC 250	2,9	[-]

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Electrical properties

Volume resistivity	IEC 93	10^{14}	Ω.cm
Surface resistivity	IEC 93	10^{14}	Ω
Resistance to tracking (CTI)	DIN EN 60112	600	[-]
Dissipation factor 1 MHz	IEC 250	0,03	[-]

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