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Datasheet AE202HV

AE202HV is an unreinforced, high viscosity Polyamide 6. It has a higher impact resistance also at very low temperature, AS202HV does not break at room temperature during the Charpy impact strength test, the notched test has a value of 70 kJ/m².

Application

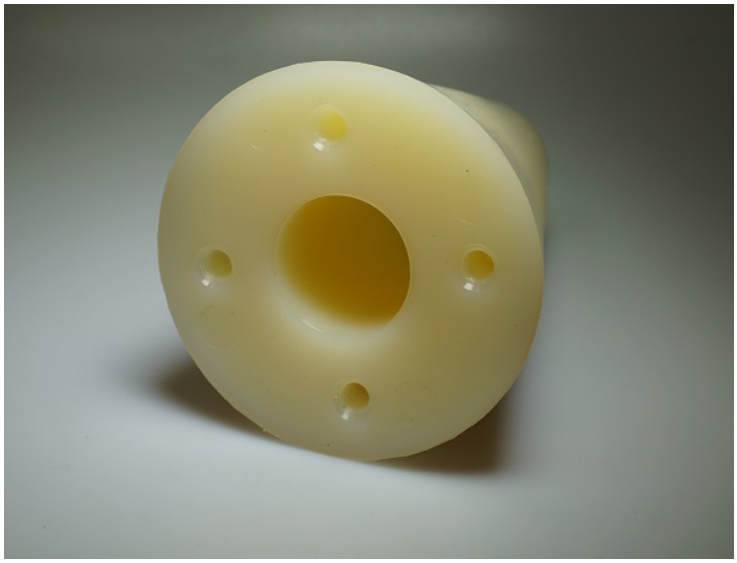
Especially for various engineering elements and building machine parts which require high impact strength at lower temperatures

Material

Polyamide.

Availablity

	Value	Unit
Rod diameters	30-160	mm
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	3000	mm
Sheet thickness	on request	
Sheet size	on request	



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AE202HV - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,13	g/cm³
Thermal conductivity	Method A	0,23	W/m°K
Specific heat capacity	IEC 1006	1,7	J/g.K
Moisture absorption at 23°C, 50% RH	ISO 62	2,8	%
Water absorption at 23 °C	ISO 62	9,5	%
Flammability	UL 94	HB	[-]

Mechanical properties

	Test standard	Value	Unit
Hardness	ISO 868	75	SHORE-D
Yield stress	ISO 527	85	MPa
Elongation at break	ISO 527	>50	%
Modulus of elasticity in tension	ISO 527	3000	MPa
Bending modulus	Flexural test	2800	MPa
Flexural strength		on request	
Charpy impact strength +23°C	ISO 179/1eU	no break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	9	kJ/m²
Ball indentation hardness		on request	
Compressive modulus		on request	

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-30	°C
Max. working temperature		100	°C
Intermittent working temperature		180	°C
Heat distortion temperature	Method A ISO 75	65	°C
Melting temperature	ISO 3146	220	°C
Thermal coefficient of linear expansion	DIN 53752	07-10	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	25	KV/mm
Dielectric constant at 1MHZ	IEC 250	3,3	[-]
Volume resistivity	IEC 93	10^{14}	Ω.cm

Electrical properties

Surface resistivity		on request	
Resistance to tracking (CTI)		on request	
Dissipation factor 1 MHz	IEC 250	0,02	[-]