ASEC



ENGINEERING PLASTICS PA AE-ZL202HV

SKU: AEZL202HV

ASEC Kunststoffen BV

Marketing 17, 6921 RE Duiven, The Netherlands

T: +31 316 84 44 01 | info@asec.nl

Categories: PA, PA6 Extruded

Features

- Unreinforced high viscosity polyamide.
- Approved for food contact (FDA).
- Suitable for applications which require high iMPact strength at lower temperature.
- Perfect for applications when recoil or split-off is a critical issue.
- It has higher mechanical values than AEZL202.
- Color natural.

Application

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

Material

Polyamide. (PA6)

AEZL202HV is an unreinforced, high viscosity Polyamide 6. It has a higher impact resistance also at very low temperature. AEZL202HV does not break at room temperature during the Charpy impact strength test, the notched test has a value of 70 kJ/m².

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Availablity		Value	Unit
Rod diameters		30-160	mm
Tube inside diameter		On request	mm
Tube outside diameter		On request	mm
Length standard		3000	mm
Sheet size		On request	mm
Sheet thickness		On request	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.13	g/cm³
Food contact allowed		High	
Wear Resistance		Medium	
Dimensional stability		Medium	
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
Charpy impact strength +23°C	ISO 179/1eU	no break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	9	kJ/m²
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-30	°C
Max. working temperature		100	°C
Inter. 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
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	[-]
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction		High	
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric strength	IEC 243	25	KV/mm
Dielectric constant at 1MHZ	IEC 250	3.3	[-]
Volume resistivity	IEC 93	10 14	Ω.cm
Dissipation factor 1 MHz	IEC 250	0.02	[-]

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