ASEC



ENGINEERING PLASTICS PA AE-ZL1100HS

SKU: AEZL1100HS

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Categories: PA with additives, PA6G with additives

Features

- Allows a higher continuously service temperature.
- Excellent heat aging performance.
- Resistance to thermal-oxidative degradation.
- Color black.

Material
Cast nylon polyamide 6 (PA6C) heatstabalized.

Basically the properties are to be compared with those of AE1100 but better protected against thermal oxidative degradation by a heat aging stabilizer. Therefore, this material is mechanically resistant for longer service temperatures.

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Availablity		Value	Unit
Rod diameters		30-800	mm
Tube inside diameter		30-840	mm
Tube outside diameter		50-880	mm
Length standard		1000/2000	mm
Sheet size		1000/1220x1000/2000/3050	mm
Sheet thickness		8-165	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.15	g/cm³
Food contact allowed		Low	
Wear Resistance		High	
Dimensional stability		Medium	
Mechanical properties	**Test standard**	**Value**	**Unit**
Yield stress	ISO 527	90	MPa
Elongation at break	ISO 527	30	%
Modulus of elasticity in tension	ISO 527	2500	MPa
Bending modulus	Flexural test	3000	MPa
Flexural strength	ISO 178	120	MPa
Charpy impact strength +23°C	ISO 179/1eU	no break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	>4	kJ/m²
Ball indentation hardness	ISO 2039	170	N/mm²
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-40	°C
Max. working temperature		105	°C
Inter. working temperature		180	°C
Melting temperature	ISO 3146	220	°C
Thermal coefficient of linear expansion	DIN 53752	7 - 8	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	2.2	%
Water absorption at 23 °C	ISO 62	7	%
Flammability	UL 94	HB	[-]
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric constant	DIN 53483	3,7	[-]
Dielectric loss factor	DIN 53483	0,03	[-]
Dielectric strength	IEC 243	50	KV/mm
Dielectric constant at 1MHZ	IEC 250	3,7	[-]
Volume resistivity	IEC 93	10 15	Ω.cm
Surface resistivity	IEC 93	10 13	Ω
Resistance to tracking (CTI)	DIN EN 60112	600	[-]
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction		High	

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