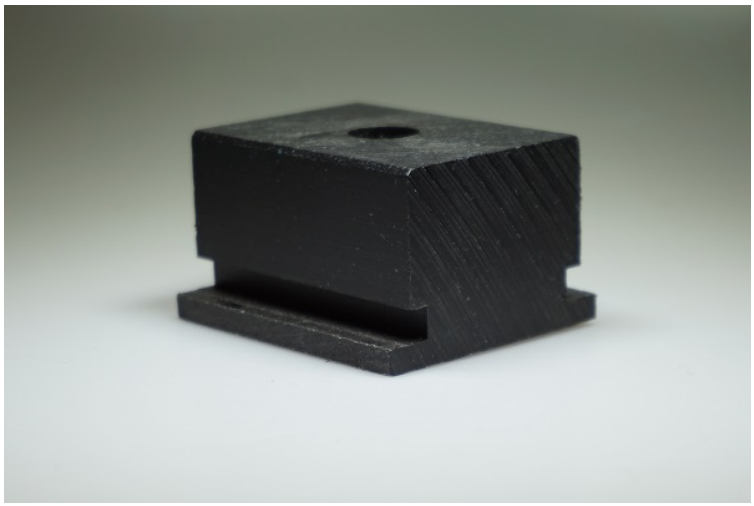
ASEC



ENGINEERING PLASTICS PA AE-ZL250BL

SKU: AEZL250BL

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Categories: PA, PA6.6

Features

- Low moisture absorption.
- High temperature resistance.
- Low moisture absorption.
- High resistance to fuels, oils, greases, most organic solvents and alkalis.
- The hardest and most rigid type of extruded Nylon.
- Color black.

Application
Parts exposed to mechanical stress and strain under elevated temperatures.

Material
Polyamide 6.6 black

AEZL250BL is the hardest and most rigid type of extruded Nylon. It's high temperature resistance and has a high tensile strength. AEZL250BL is high resistance to the most organic solvents, oils, greases, fuels and the most alkalis.

The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.
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Availablity		Value	Unit
Rod diameters		6-150	mm
Tube inside diameter		On request	mm
Tube outside diameter		On request	mm
Length standard		3000	mm
Sheet size		610x3000	mm
Sheet thickness		8-60	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.14	g/cm³
Food contact allowed		High	
Wear Resistance		Medium	
Dimensional stability		Medium	
Mechanical properties	**Test standard**	**Value**	**Unit**
Tensile strength	ISO 527	80	MPa
Hardness	ISO 868	82	SHORE-D
Yield stress	ISO 527	86	MPa
Elongation at break	ISO 527	>50	%
Modulus of elasticity in tension	ISO 527	3300	MPa
Bending modulus	Flexural test	3200	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	5	kJ/m²
Ball indentation hardness	ISO 2039-1	155	N/mm²
Compressive modulus	ISO 604	2600	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-30	°C
Max. working temperature		90	°C
Inter. working temperature		160	°C
Heat distortion temperature	Method A ISO 75	80	°C
Melting temperature	ISO 3146	260	°C
Glass transition temperature	ISO 3146	60	°C
Thermal coefficient of linear expansion	DIN 53752	8	1/K.10-5
Thermal conductivity		0.30	W/m°K
Specific heat capacity	IEC 1006	1.6	J/g.K
Moisture absorption at 23°C. 50% RH	ISO 62	2.7	%
Water absorption at 23 °C	ISO 62	8.5	%
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 13	Ω.cm
Surface resistivity	IEC 93	10 12	Ω
Dissipation factor 1 MHz	IEC 250	0.02	[-]

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