ASEC



ENGINEERING PLASTICS PA AE-ZL202SW

SKU: AEZL202SW

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Categories: PA, PA6 Extruded

Features

- Tough material. high impact resistance.
- Specific gravity of 1.15 g/cm³ and bronze has 8.8 g/cm³ making the comparative volume price very attractive.
- Reduces lubrication requirements.
- Approved for contact with food (BFR and FDA).
- Color black.

Application
Pulp and paper industry, offshore and marine, textile. general machine building, food industry, material handling, electronics, construction, mining, aerospace and many more.

Material
Polyamide. (PA6)

AEZL202 has a high resistance to abrasion and impact, a good example as a substitution material for bronze, aluminum and other non-ferrous metals. It has also significant weight advantages. AEZL202 reduces lubrication requirements and is non-abrasive to mating surfaces. AEZL202 is good for general purpose wear and structural parts which need a good balance of strength and toughness. AEZL202 is approved for contact with food.

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Availablity		Value	Unit
Rod diameters		6-200	mm
Tube inside diameter		On request	mm
Tube outside diameter		On request	mm
Length standard		On request	mm
Sheet size		On request	mm
Sheet thickness		2-100	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**
Tensile strength	ISO 527	80	MPa
Hardness	ISO 868	82	SHORE-D
Yield stress	ISO 527	79	MPa
Elongation at break	ISO 527	70	%
Modulus of elasticity in tension	ISO 527	3200	MPa
Bending modulus	ISO 178	3000	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	6.4	kJ/m²
Ball indentation hardness	ISO 2039-1	172	N/mm²
Compressive modulus	ISO 604	2400	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-40	°C
Max. working temperature		100	°C
Inter. working temperature		170	°C
Heat distortion temperature	Method A ISO 75	70	°C
Melting temperature	ISO 3146	220	°C
Thermal coefficient of linear expansion	DIN 53752	07-10	1/K.10-5
Thermal conductivity	Method A	0.33	W/m°K
Specific heat capacity	IEC 1006	1.7	J/g.K
Moisture absorption at 23°C. 50% RH	ISO 62	3	%
Water absorption at 23 °C	ISO 62	9	%
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	3.5	[-]
Volume resistivity	IEC 93	10 13	Ω.cm
Surface resistivity	IEC 93	10 13	Ω

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