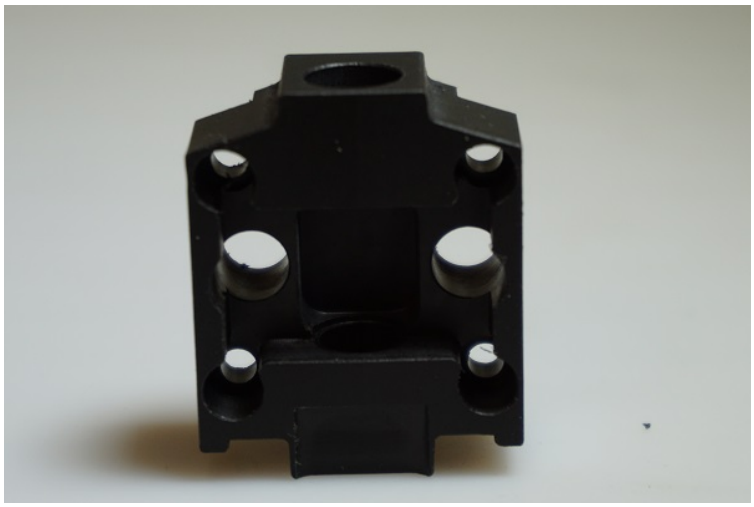
ASEC



ENGINEERING PLASTICS PA AE-ZL250GF30

SKU: AEZL250GF30

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Categories: PA with additives, PA6.6 with additives

Features

- Increased compressive strength and rigidity.
- Increased stiffness, creep resistance and dimensional stability.
- Allow higher maximal service temperatures.
- For improved load capacity.
- For improved frictional characteristics.

Application
Transport and conveyer, mechanical and automotive engineering, precision engineering, paper and packaging processing machinery.

Material
Polyamide 6.6 with glass fibers.

AEZL250GF30 Gives an increased compressive strength and rigidity, stiffness, creep resistance and dimensional stability while retaining good wear resistance. It can be used when improved load capacity or better frictional characteristics are requested. It also allows higher maximal service temperatures.

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Availablity		Value	Unit
Rod diameters		6-160	mm
Tube inside diameter		On request	mm
Tube outside diameter		On request	mm
Length standard		3000	mm
Sheet size		610x3000	mm
Sheet thickness		8-100	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.35	g/cm³
Food contact allowed		Low	
Wear Resistance		High	
Dimensional stability		High	
Mechanical properties	**Test standard**	**Value**	**Unit**
Tensile strength	ISO 527	110	MPa
Hardness	ISO 868	85	SHORE-D
Elongation at break	ISO 527	8	%
Modulus of elasticity in tension	ISO 527	5500	MPa
Bending modulus	Flexural test	5300	MPa
Flexural strength	ISO 178	170	MPa
Charpy impact strength +23°C	ISO 179/1eU	37	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	5,8	kJ/m²
Ball indentation hardness	ISO 2039-1	252	N/mm²
Compressive modulus	ISO 604	3500	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-20	°C
Max. working temperature		130	°C
Inter. working temperature		200	°C
Heat distortion temperature	Method A ISO 75	150	°C
Melting temperature	ISO 3146	260	°C
Thermal conductivity	Method A	0.27	W/m°K
Specific heat capacity	IEC 1006	1.5	J/g.K
Moisture absorption at 23°C, 50% RH	ISO 62	1.5	%
Water absorption at 23 °C	ISO 62	5.5	%
Flammability	UL 94	HB	[-]
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric strength	IEC 243	30	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		Medium	
Thermal coefficient of linear expansion	DIN 53752	5	1/K.10-5

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