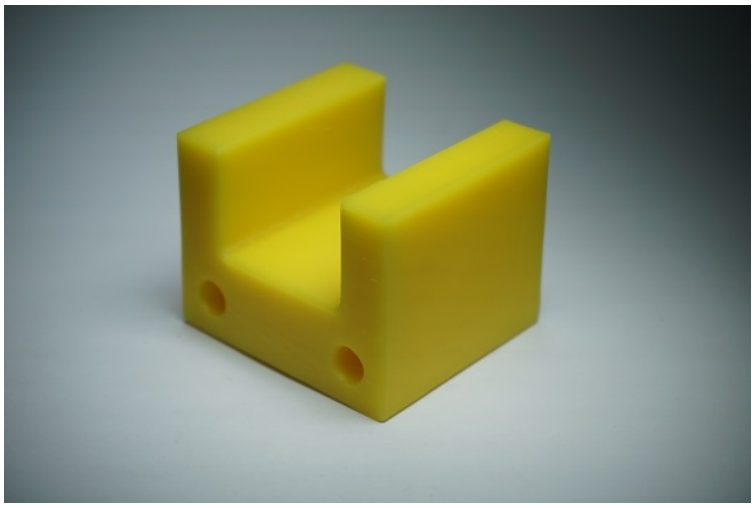
ASEC



ENGINEERING PLASTICS PA AE-ZL1100OIL

SKU: AEZL1100OIL

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Categories: PA with additives, PA6G with additives

Features

- Self-lubricating effect.
- Improved wear resistance.
- Improved lower coefficient of friction.
- Good for simultaneously static and dynamic friction.
- Various colors: white, yellow, green and black.

Material
Cast Nylon Polyamide 6 (PA6 C) with OIL

AEZL1100OIL has integrated lubrication for a self-lubricating effect. It also improves wear resistance.

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		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		1,14	g/cm³
Food contact allowed		Low	
Wear Resistance		High	
Dimensional stability		Medium	
Mechanical properties	**Test standard**	**Value**	**Unit**
Yield stress	ISO 527	80	MPa
Elongation at break	ISO 527	50	%
Modulus of elasticity in tension	ISO 527	2500	MPa
Bending modulus	Flexural test	2800	MPa
Flexural strength	ISO 178	135	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	140	N/mm²
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-40	°C
Max. working temperature		105	°C
Inter. working temperature		160	°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	1,8	%
Water absorption at 23 °C	ISO 62	5,5	%
Flammability	UL 94	HB	[-]
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric strength	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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