ASEC



ENGINEERING PLASTICS PA AE-ZL202MO

SKU: AEZL202MO

ASEC Kunststoffen BV

Marketing 17, 6921 RE Duiven, The Netherlands

T: +31 316 84 44 01 | info@asec.nl

Categories: PA with additives, PA6 with additives

Features

- Improved sliding properties.
- Approved higher compressive strength.
- UV-radiation resistance is enhanced by its black color.
- Color Black.

Application
Slide bearings with low coefficient of friction, sleeves, cams, gears, pinions, thrust washers, valve seats and bearings.

Material
Cast Nylon Polyamide 6 (PA6) with Mos2

AEZL202MO is commonly used as a substitution material for bronze, aluminum and other Non-Ferro metals which needs a better sliding property and a slightly higher compressive strength. It has also an improved wear resistance and lower surface friction than AS202. Also, the moisture absorption is a bit lower.

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Availablity		Value	Unit
Rod diameters		6-100	mm
Tube inside diameter		10-240	mm
Tube outside diameter		25-310	mm
Length standard		3000	mm
Sheet size		1000x2000	mm
Sheet thickness		1.5-6	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**
Tensile strength	ISO 527	90	MPa
Hardness	ISO 868	80	SHORE-D
Yield stress	ISO 527	90	MPa
Elongation at break	ISO 527	27	%
Modulus of elasticity in tension	ISO 527	3600	MPa
Bending modulus	ISO 178	3400	MPa
Flexural strength	ISO 178	130	MPa
Charpy impact strength +23°C	ISO 179/1eU	no break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	2.5	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		90	°C
Inter. working temperature		160	°C
Heat distortion temperature	Method A ISO 75	100	°C
Melting temperature	ISO 3146	220	°C
Thermal coefficient of linear expansion	DIN 53752	9	1/K.10-5
Thermal conductivity	Method A	0.37	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	8	%
Flammability	UL 94	HB	[-]
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric strength	IEC 243	25	KV/mm
Volume resistivity	IEC 93	10 12	Ω.cm
Surface resistivity	IEC 93	10 12	Ω
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction		High	

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