ASEC



ENGINEERING PLASTICS POM AE-ZL900BL

SKU: AEZL900BL

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Categories: POM

Features

- High mechanical strength.
- Good anti-friction properties.
- High heat resistance.
- Wide range chemical resistance.
- Porosity free and most formulations are approved for contact with food.
- Color Black.

Application
Food processing, agriculture, medical, electric, electronic, automotive, general machine building, transport and logistics, bottle and car washing equipment, sports equipment, office machinery, textile.

Material
POM-C.

AEZL900 has high mechanical strength, heat resistance and good antifriction properties. It's characterized by a low coefficient of friction and good wear properties, unaffected by wet environments. AEZL900 offers also a good resistance to a wide range of chemicals and many solvents. It is porosity freed and most formulations are approved for contact with food.

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		6-500	mm
Tube inside diameter		10-375	mm
Tube outside diameter		25-500	mm
Length standard		1000/3000	mm
Sheet size		610/1000/1220x2000/3000	mm
Sheet thickness		1-150	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.41	g/cm³
Food contact allowed		High	
Wear Resistance		Low	
Dimensional stability		High	
Mechanical properties	**Test standard**	**Value**	**Unit**
Tensile strength	ISO 527	65	MPa
Hardness	ISO 868	81	SHORE-D
Yield stress	ISO 527	65	MPa
Elongation at break	ISO 527	40	%
Modulus of elasticity in tension	ISO 527	2900	MPa
Bending modulus	Flexural test	2800	MPa
Flexural strength	ISO 178	95	MPa
Charpy impact strength +23°C	ISO 179/1eU	No break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	7	kJ/m²
Ball indentation hardness	ISO 2039-1	125	N/mm²
Compressive modulus	ISO 604	2400	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-50	°C
Max. working temperature		100	°C
Inter. working temperature		140	°C
Heat distortion temperature	Method A ISO 75	110	°C
Melting temperature	ISO 3146	164	°C
Glass transition temperature	ISO 3146	-60	°C
Thermal conductivity	Method A	0.33	W/m°K
Specific heat capacity	IEC 1006	1.5	J/g.K
Moisture absorption at 23°C, 50% RH	ISO 62	0.2	%
Water absorption at 23 °C	ISO 62	0.8	%
Flammability	UL 94	HB	[-]
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric strength	IEC 243	>20	KV/mm
Dielectric constant at 1MHZ	IEC 250	3.8	[-]
Volume resistivity	IEC 93	10 14	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	
Thermal coefficient of linear expansion	DIN 53752	11	1/K.10-5

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