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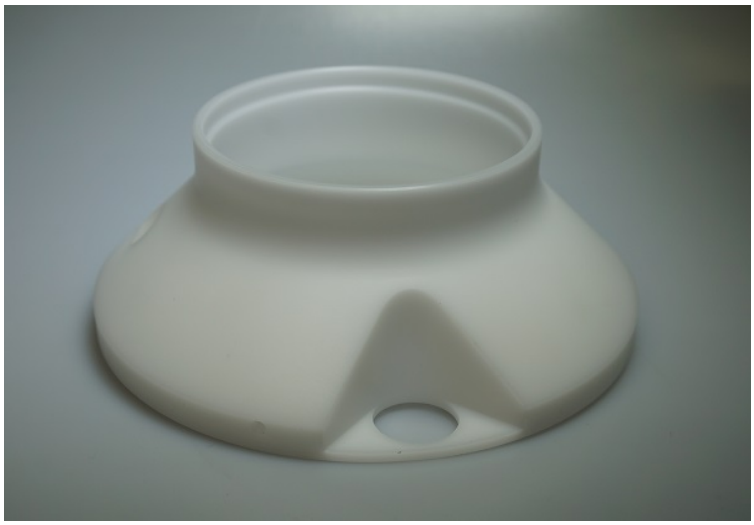

ENGINEERING PLASTICS POM AE-ZL900AS

SKU: AEZL900AS

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Categories: POM

Features

- No carbon used, good for clean room applications.
- No humidity or other surface treatments needed to achieve the antistatic performance.
- The permanently antistatic property is not influenced by humidity and there will no migration taking place.
- Color Ivory.

Application
Electrical conductive and antistatic Acetals parts are used where electrical discharge in operation is a problem.

Material
POM-C antistatic.

AEZL900AS Does not contain carbon and can be prepared for clean room applications. Static electricity is disposed by the surface and don't need humidity or other surface treatments to achieve the antistatic performance. AEZL900AS can be widely used in various industries due its excellent technical value of surface resistivity of 10^10 Ω and volume resistivity of 10^9 Ω.cm. The permanently antistatic property is not influenced by humidity and there is no migration taking place.

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Availablity		Value	Unit
Rod diameters		6-160	mm
Length standard		3000	mm
Sheet size		1000x2000	mm
Sheet thickness		1-50	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.35	g/cm³
Food contact allowed		High	
Wear Resistance		Medium	
Dimensional stability		High	
Mechanical properties	**Test standard**	**Value**	**Unit**
Tensile strength	ISO 527	42	MPa
Hardness	ISO 868	74	SHORE-D
Yield stress	ISO 527	42	MPa
Elongation at break	ISO 527	15	%
Modulus of elasticity in tension	ISO 527	1600	MPa
Bending modulus	Flexural test	1600	MPa
Flexural strength	ISO 178	60	MPa
Charpy impact strength +23°C	ISO 179/1eU	No break	kJ/m²
Ball indentation hardness	ISO 2039-1	84	N/mm²
Compressive modulus	ISO 604	1900	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-50	°C
Max. working temperature		90	°C
Inter. working temperature		130	°C
Melting temperature	ISO 3146	165	°C
Glass transition temperature	ISO 3146	-60	°C
Moisture absorption at 23°C, 50% RH	ISO 62	0.8	%
Water absorption at 23 °C	ISO 62	6.3	%
Flammability	UL 94	HB	[-]
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric strength	IEC 243	14	KV/mm
Volume resistivity	IEC 93	109 - 1010	Ω.cm
Surface resistivity	IEC 93	109 - 1010	Ω
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction		Medium	
Thermal coefficient of linear expansion	DIN 53752	15	1/K.10-5

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