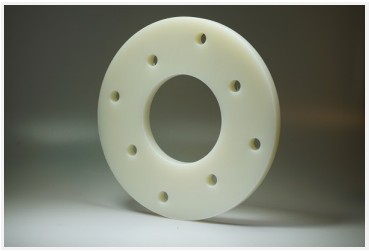
ASEC Products
Marketing 17
6921 RE Duiven
The Netherlands
T. +31 316 84 44 01
info@asecproducts.com
www.asecproducts.com

Datasheet AE900AS



AE900AS 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. AE900AS 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.

Application

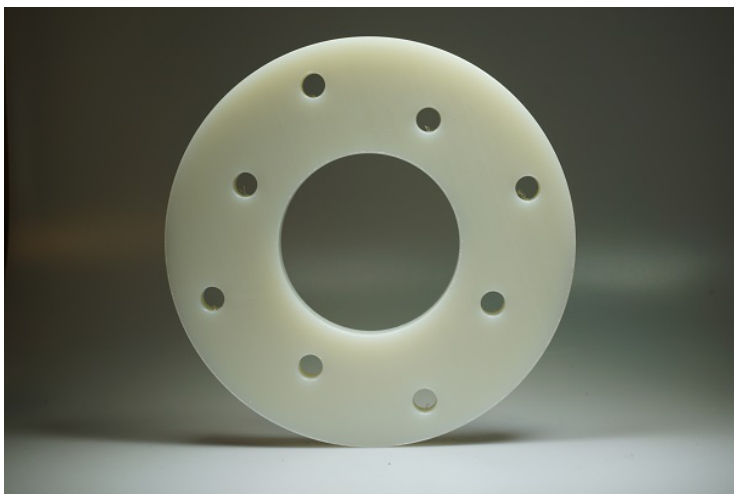
Electrical conductive and antistatic Acetals parts are used where electrical discharge in operation is a problem.

Material

POM-C antistatic.

Availablity

	Value	Unit
Rod diameters	6-160	mm
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	3000	mm
Sheet thickness	aug-50	mm
Sheet size	1000x2000	mm



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AE900AS - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,35	g/cm³
Thermal conductivity		on request	
Specific heat capacity		on request	
Moisture absorption at 23°C, 50% RH	ISO 62	0,8	%
Water absorption at 23 °C	ISO 62	6,3	%
Flammability	UL 94	HB	[-]

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
Charpy notched impact strength +23°C		on request	
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
Intermittent working temperature		130	°C
Heat distortion temperature		on request	
Melting temperature	ISO 3146	165	°C
Glass transition temperature	ISO 3146	-60	°C
Thermal coefficient of linear expansion	DIN 53752	15	1/K.10-5

Friction properties

	Test standard	Value	Unit

Electrical properties

	Test standard	Value	Unit
Dielectric constant		on request	
Dielectric loss factor		on request	
Dielectric strength	IEC 243	14	KV/mm

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Electrical properties

Dielectric constant at 1MHZ		on request	
Volume resistivity	IEC 93	10^{9} - 10 10	Ω.cm
Surface resistivity	IEC 93	10^{9} - 10 10	Ω
Resistance to tracking (CTI)		on request	

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