ASEC



ENGINEERING PLASTICS POM AE-ZL900XUELS

SKU: AEZL900XUELS

ASEC Kunststoffen BV

Marketing 17, 6921 RE Duiven, The Netherlands

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

Categories: POM

Features

- 50% reduce of stiffness and yield strength.
- But the important properties of POM-C remains unchanged.
- Color Black

Material
POM conductive.

ASEC Engineering Plastic's groundbreaking Nanotechnology insures that the important properties of POM-C (Acetal Copolymer) remain unchanged, outperforming commonly available grades which are using up to 40% of carbon fillers which reduce the stiffness and yield strength as much as 50%. The very low surface resistivity of 10^3 Ω to 10^4 Ω and the volume resistivity of 10^4 Ω.cm are achieved by adding Nanoparticles. Color Black.

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Availablity		Value	Unit
Rod diameters		6-150	mm
Length standard		3000	mm
Sheet size		1000x2000	mm
Sheet thickness		8-50	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.41	g/cm³
Food contact allowed		Low	
Wear Resistance		Medium	
Dimensional stability		High	
Thermal conductivity	Method A	0,4	W/m°K
Mechanical properties	**Test standard**	**Value**	**Unit**
Tensile strength	ISO 527	70	MPa
Hardness	ISO 868	80	SHORE-D
Elongation at break	ISO 527	11	%
Modulus of elasticity in tension	ISO 527	3100	MPa
Charpy impact strength +23°C	ISO 179/1eU	70	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	3,4	kJ/m²
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-40	°C
Max. working temperature		90	°C
Inter. working temperature		100	°C
Heat distortion temperature	Method A ISO 75	125	°C
Melting temperature	ISO 3146	175	°C
Glass transition temperature	ISO 3146	-60	°C
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**
Volume resistivity	IEC 93	104	Ω.cm
Surface resistivity	IEC 93	104	Ω
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction		Medium	
Thermal coefficient of linear expansion	DIN 53752	13	1/K.10-5

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