ASEC



ENGINEERING PLASTICS POM AE-ZL900H

SKU: AEZL900H

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Categories: POM

Features

- ue to a higher degree of crystallinity AE900H becomes a higher density and hardness.
- Also it becomes a higher strength and better creep resistance.
- Color White.

Application
Medical, pumps, chemical equipment, sport equipment and automotive.

Material
POM with a solid lubricate.

POM-H offers additional strength and rigidity and slightly higher mechanical properties than POM-C and delivers outstanding fatigue and iMPact resistance. AEZL900H has also a lower thermal expansion rate. However, POM Homopolymer has a higher iMPact resistance and better abrasion resistance. AEZL900H has very good kinetic friction properties. Color White.

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Availablity		Value	Unit
Rod diameters		on request	
Length standard		on request	
Sheet size		on request	
Sheet thickness		on request	
Mechanical properties	**Test standard**	**Value**	**Unit**
Density	ISO 1183-1	1.42	g/cm³
Tensile strength	ISO 527	76	MPa
Hardness	ISO 868	84	SHORE-D
Elongation at break	ISO 527	30	%
Modulus of elasticity in tension	ISO 527	3200	MPa
Bending modulus	Flexural test	3000	MPa
Charpy impact strength +23°C	ISO 179/1eU	no break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	11	kJ/m²
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-50	°C
Max. working temperature		90	°C
Inter. working temperature		150	°C
Heat distortion temperature	Method A ISO 75	100	°C
Melting temperature	ISO 3146	178	°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**
Dielectric constant at 1MHZ	IEC 250	3,8	[-]
Volume resistivity	IEC 93	10 14	Ω.cm
Surface resistivity	IEC 93	10 14	Ω
Friction properties	**Test standard**	**Value**	**Unit**
Thermal coefficient of linear expansion	DIN 53752	10	1/K.10-5

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