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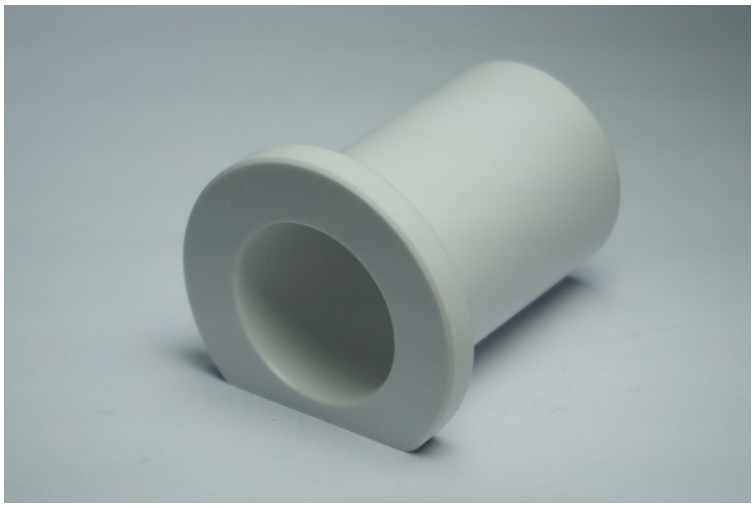

ENGINEERING PLASTICS PET AE-ZL1400

SKU: AEZL1400

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Categories: PET

Features

- Outstanding dimensional stability.
- Unaffected by ambient moisture.
- Low friction.
- Excellent wear resistant.
- Low creep properties.
- High modulus of elasticity.

Application
Parts exposed to high pressure such as rollers, toothed gears, valves, distribution valves, precision plain bearings, plug connectors.

Material
Thermoplastic Polyester (PET)

AEZL1400 is a partly crystalline thermoplastic polyester based on Polyethylene-Terephthalate.

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Availablity		Value	Unit
Rod diameters		30-500	mm
Tube outside diameter		20-250	mm
Tube inside diameter		30-200	mm
Length standard		1000-3000	
Sheet size		1000x3000	mm
Sheet thickness		8-60	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density	ISO 1183	1,36	g/cm³
Food contact allowed		High	[-]
Wear Resistance		Middel	[-]
Dimensional stability		High	[-]
Moisture absorption at 23°C, 50% RH	ISO 62	0.20	%
Water absorption at 23 °C	ISO 62	0,5	%
Flammability	UL 94	HB	[-]
Mechanical properties	**Test standard**	**Value**	**Unit**
Tensile strength	ISO 52	88	MPa
Hardness	ISO 868	81	SHORE-D
Yield stress	ISO 527	88	MPa
Elongation at break	ISO 527	10	%
Modulus of elasticity in tension	ISO 527	3400	MPa
Bending modulus	Flexural test	3300	MPa
Flexural strength	ISO 178	130	MPa
Charpy impact strength +23°C	ISO 179/1eU	82	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	3.0	kJ/m²
Ball indentation hardness	ISO 2039-1	177	MPa
Compressive modulus	ISO 604	2400	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-20	°C
Max. working temperature		100	°C
Inter. working temperature		160	°C
Heat distortion temperature	Method A ISO 75	100	°C
Melting temperature	ISO 3146	255	°C
Thermal coefficient of linear expansion	DIN 53752	6	1/K.10-5
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric strength	IEC 243	20	kV/mm
Dielectric constant at 1MHZ	IEC 250	3,3	[-]
Volume resistivity	IEC 93	10 15	Ω.cm
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction		High	[-]

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