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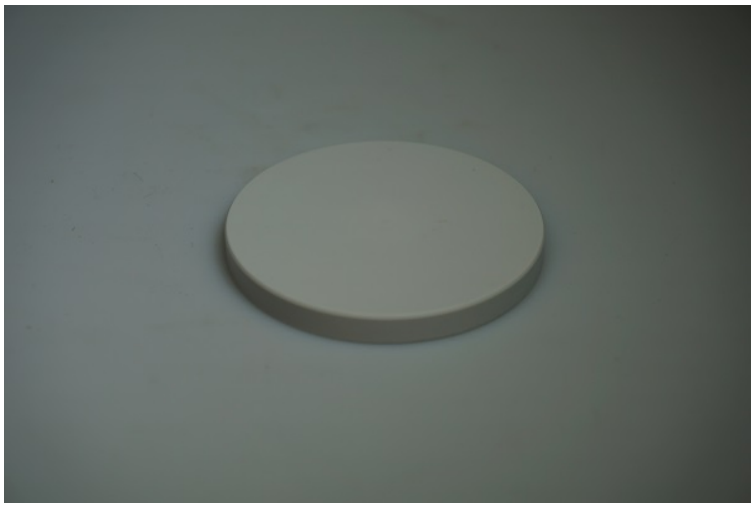

ENGINEERING PLASTICS PET AE-ZL1400PBT

SKU: AEZL1400PBT

ASEC Kunststoffen BV

Marketing 17, 6921 RE Duiven, The Netherlands

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

Categories: PET

Features

- Significantly reduced coefficient of friction and increased resistance to wear compared to unfilled PET.
- Suitable for parts exposed to high pressure and velocity.
- Produced without centerline porosity.
- Approved for contact with food (BFR, FDA and EU 1935 2004/2011).
- Color light grey.

Application
Rollers, precision plain bearings, toothed gears, valves, distribution valves, etc.

Material
Thermoplastic Polyester (PET) with PTFE

AEZL1400PBT is an internally lubricated material which shows a significantly reduced coefficient of friction and increased resistance to wear coMPared to unfilled PET. It even outperforms materials such as wax of oil filled Cast Nylon products. It's also a material of choice for applications involving soft metal and plastic mating surface.

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Availablity		Value	Unit
Rod diameters		6-140	mm
Tube outside diameter		25-210	mm
Tube inside diameter		10-160	mm
Length standard		3000	
Sheet size		610x2000	mm
Sheet thickness		8-100	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1,39	g/cm³
Food contact allowed		High	[-]
Wear Resistance		High	[-]
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	80	MPa
Hardness	ISO 868	81	SHORE-D
Yield stress	ISO 527	80	MPa
Elongation at break	ISO 527	6	%
Modulus of elasticity in tension	ISO 527	3300	MPa
Bending modulus	Flexural test	3000	MPa
Flexural strength	ISO 178	115	MPa
Charpy impact strength +23°C	ISO 179/1eU	60	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	3.0	kJ/m²
Ball indentation hardness	ISO 2039-1	175	MPa
Compressive modulus	ISO 604	2800	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-20	°C
Max. working temperature		110	°C
Inter. working temperature		160	°C
Heat distortion temperature	Method A ISO 75	100	°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	[-]
Surface resistivity	IEC 93	10 13	Ω
Resistance to tracking (CTI)	DIN EN 60112	600	[-]
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction		High	[-]

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