ASEC



ENGINEERING PLASTICS PEEK AE-ZL1500XT

SKU: AEZL1500XT

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Categories: PEEK

Features

- High performance tribological properties and very low wear.
- Good engineering properties, as it is tough, strong, rigid and creep resistant.
- Color Black.

Application
Friction bearings under high load and at the same time exposed to high temperatures.

Material
PEEK

High performance tribological properties and very low wear are further characteristics of this modified PEEK with high pressure-velocity capabilities. AEZL1500XT has good engineering properties, as it is tough, strong, rigid and creep resistant.

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Availablity		Value	Unit
Rod diameters		6-100	mm
Tube inside diameter		on request	
Tube outside diameter		on request	
Length standard		3000	mm
Sheet size		610x3000	mm
Sheet thickness		5-80	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1,45	g/cm³
Food contact allowed		Low	[-]
Wear Resistance		High	[-]
Dimensional stability		High	[-]
Moisture absorption at 23°C, 50% RH	ISO 62	0,06	%
Water absorption at 23 °C	ISO 62	0,4	%
Flammability	UL 94	V-0	[-]
Mechanical properties	**Test standard**	**Value**	**Unit**
Hardness	ISO 868	85	SHORE-D
Yield stress	ISO 527	120	MPa
Elongation at break	ISO 527	2	%
Modulus of elasticity in tension	ISO 527	9000	MPa
Bending modulus	Flexural test	9100	MPa
Flexural strength	ISO 178	190	MPa
Charpy impact strength +23°C	ISO 179/1eU	40	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	5	kJ/m²
Ball indentation hardness	ISO 2039-1	242	MPa
Compressive modulus	ISO 604	2800	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-30	°C
Max. working temperature		250	°C
Inter. working temperature		300	°C
Heat distortion temperature	Method A ISO 75	315	°C
Melting temperature	ISO 3146	340	°C
Thermal conductivity	Method A	0,24	W/m°K
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric constant at 1MHZ	IEC 250	4,9	[-]
Volume resistivity	IEC 93	10 3 - 10 7	Ω.cm
Surface resistivity	IEC 93	10 5	Ω
Friction properties	**Test standard**	**Value**	**Unit**
Thermal coefficient of linear expansion	DIN 53752	2,2	1/K.10-5
Coefficient of friction		High	[-]

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