ASEC



ENGINEERING PLASTICS PEEK AE-ZL1500SCA30

SKU: AEZL1500SCA30

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Categories: PEEK

Features

- Stiffness and compressive strength are superior to unfilled PEEK.
- This carbon fiber filled material features improved dimensional stability and offers excellent wear resistance as well as a very low coefficient of friction.
- The carbon fibers dramatically reduce the thermal expansion and the much higher thermal conductivity helps to keep the surface of a bearing cool.
- Color Anthracite.

Material
PEEK with Carbon

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Availablity		Value	Unit
Rod diameters		6-80	mm
Tube inside diameter		on request	
Tube outside diameter		on request	
Length standard		3000	mm
Sheet size		1000x2000	mm
Sheet thickness		5-60	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1,4	g/cm³
Food contact allowed		Low	[-]
Wear Resistance		High	[-]
Dimensional stability		High	[-]
Moisture absorption at 23°C, 50% RH	ISO 62	0,1	%
Water absorption at 23 °C	ISO 62	0,4	%
Flammability	UL 94	V-0	[-]
Mechanical properties	**Test standard**	**Value**	**Unit**
Tensile strength	ISO 527	120	MPa
Yield stress	ISO 527	124	MPa
Elongation at break	ISO 527	9	%
Modulus of elasticity in tension	ISO 527	7100	MPa
Flexural strength	ISO 178	200	MPa
Charpy impact strength +23°C	ISO 179/1eU	85	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	6.0	kJ/m²
Ball indentation hardness	ISO 2039-1	346	MPa
Compressive modulus	ISO 604	11000	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-20	°C
Max. working temperature		240	°C
Inter. working temperature		300	°C
Thermal conductivity	Method A	0,92	W/m°K
Heat distortion temperature	Method A ISO 75	315	°C
Melting temperature	ISO 3146	340	°C
Glass transition temperature	ISO 3146	150	°C
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric constant at 1MHZ	IEC 250	17	[-]
Volume resistivity	IEC 93	10 5	Ω.cm
Surface resistivity	IEC 93	10 5	Ω
Friction properties	**Test standard**	**Value**	**Unit**
Thermal coefficient of linear expansion	DIN 53752	1 - 4	1/K.10-5
Coefficient of friction		High	[-]

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