ASEC



ENGINEERING PLASTICS PEEK AE-ZL1500XGF30

SKU: AEZL1500XGF30

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Categories: PEEK

Features

- Ideal for structural applications that require improved strength, stiffness or dimensional stability, especially at temperatures above 150 °C.
- Significantly reducing the rate of thermal expansion and increasing the flexural modulus of unfilled PEEK.
- Color grey.

Material
PEEK with Glass fibre

This glass fiber filled material significantly reduces the rate of thermal expansion and increases the flexural modulus of unfilled PEEK. This grade is ideal for structural applications that require improved strength, stiffness or dimensional stability, especially at temperatures above 150 °C.

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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		1000x2000	mm
Sheet thickness		5-80	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1,51	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	150	MPa
Hardness	ISO 868	88	SHORE-D
Yield stress	ISO 527	150	MPa
Elongation at break	ISO 527	4	%
Modulus of elasticity in tension	ISO 527	8700	MPa
Charpy impact strength +23°C	ISO 179/1eU	55	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	5	kJ/m²
Ball indentation hardness	ISO 2039-1	305	MPa
Compressive modulus	ISO 604	9950	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-20	°C
Max. working temperature		240	°C
Inter. working temperature		300	°C
Heat distortion temperature	Method A ISO 75	312	°C
Melting temperature	ISO 3146	340	°C
Glass transition temperature	ISO 3146	150	°C
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric strength	IEC 243	17	KV/mm
Dielectric constant at 1MHZ	IEC 250	3,3	[-]
Volume resistivity	IEC 93	10 15	Ω.cm
Surface resistivity	IEC 93	10 14	Ω
Friction properties	**Test standard**	**Value**	**Unit**
Thermal coefficient of linear expansion	DIN 53752	3	1/K.10-5
Coefficient of friction		Medium	[-]

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