ASEC



ENGINEERING PLASTICS PEEK AE-ZL1500XBL

SKU: AEZL1500XBL

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Categories: PEEK

Features

- High temperature resistance.
- High impact strength.
- Compliant for food contact.
- Self-extinguishing.
- Developing is not yet finished.

Application

Food processing, aerospace, automotice, defence, electronics and smiconductor, oiland gas, nuclear - and hydropower, vacuum, medical, wire and cable production.

Material

PEEK

AEZL1500XBL offers advantages in the electric and electronic industries as well as in the semiconductor industries. AEZL1500XBL displays high temperature resistance and impact strength.

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Availablity		Value	Unit
Rod diameters		5-160	mm
Tube inside diameter		on request	
Tube outside diameter		on request	
Length standard		3000	mm
Sheet size		1000x2000	mm
Sheet thickness		8-60	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density	ISO 1183	1,3	g/cm³
Food contact allowed		High	[-]
Wear Resistance		Medium	[-]
Dimensional stability		High	[-]
Water absorption at 23 °C	ISO 62	0,4	%
Flammability	UL 94	V-0	[-]
Mechanical properties	**Test standard**	**Value**	**Unit**
Tensile strength	ISO 527	105	MPa
Yield stress	ISO 527	105	MPa
Elongation at break	ISO 527	20	%
Modulus of elasticity in tension	ISO 527	4200	MPa
Bending modulus	Flexural test	3900	MPa
Flexural strength	ISO 178	160	MPa
Charpy impact strength +23°C	ISO 179/1eU	No Break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	3,5	kJ/m²
Ball indentation hardness	ISO 2039-1	229	MPa
Compressive modulus	ISO 604	3500	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-60	°C
Max. working temperature		260	°C
Inter. working temperature		300	°C
Heat distortion temperature	Method A ISO 75	160	°C
Melting temperature	ISO 3146	340	°C
Glass transition temperature	ISO 3146	150	°C
Electrical properties	**Test standard**	**Value**	**Unit**
Surface resistivity	IEC93	10 14	Ω
Dielectric strength	IEC 243	15	KV/mm
Dielectric constant at 1MHZ	IEC 250	3.1	[-]
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	5,8	1/K.10-5
Coefficient of friction		Medium	[-]

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