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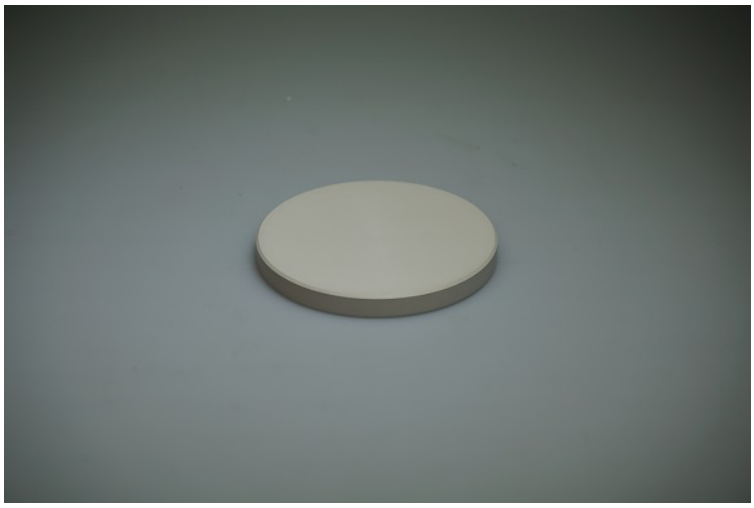

ENGINEERING PLASTICS PEEK AE-ZL1500XC20

SKU: AEZL1500XC20

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Categories: PEEK

Features

- PEEK Polyetheretherketon + 20 % ceramic.
- Excellent dimensional stability across a broad range of temperature and humidity conditions.
- When compared to PAI or other imidized polymers, this grade has greater hydrolytic stability.
- When compared with ceramics, it is half the weight and offers greater impact resistance and toughness.
- Good dielectric properties for isolative applications.
- Color white.

Material
PEEK with Ceramic

AEZL1500XC20, blended, with ceramic fillers, has excellent dimensional stability across a broad range of temperature and humidity conditions and has a good dielectric properties for isolative applications. When compared to PAI or other iridized polymers, this grade has greater hydrolytic stability. When compared with ceramics, it is half the weight and offers greater impact resistance and toughness.

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Availablity		Value	Unit
Rod diameters		8-90	mm
Tube inside diameter		on request	
Tube outside diameter		on request	
Length standard		3000	mm
Sheet size		1000x2000	mm
Sheet thickness		10-50	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1,49	g/cm³
Food contact allowed		High	[-]
Wear Resistance		High	[-]
Dimensional stability		High	[-]
Water absorption at 23 °C	ISO 62	0,2	%
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	17	%
Modulus of elasticity in tension	ISO 527	4900	MPa
Charpy impact strength +23°C	ISO 179/1eU	No Break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	2,1	kJ/m²
Ball indentation hardness	ISO 2039-1	246	MPa
Compressive modulus	ISO 604	6900	MPa
Thermal properties	**Test standard**	**Value**	**Unit**
Max. working temperature		250	°C
Min. working temperature		-60	°C
Inter. working temperature		300	°C
Melting temperature	ISO 3146	340	°C
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric constant at 1MHZ	IEC 250	3,9	[-]
Dissipation factor 1 MHz	IEC 60250	0,0014	[-]
Friction properties	**Test standard**	**Value**	**Unit**
Thermal coefficient of linear expansion	DIN 53752	4,5	1/K.10-5
Coefficient of friction		Medium	[-]

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