ASEC



ENGINEERING PLASTICS PA AE-ZL1115

SKU: AEZL1115

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Categories: PA, PA6/12

Features

- Higher impact strength.
- Lower moisture absorption.
- Better creep resistance than AEZL1100.
- Color natural.

Material
Cast Polyamide 6/12.

AEZL1115 has higher impact strength, lower moisture absorption and better creep resistance than AEZL1100.

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Availablity		Value	Unit
Rod diameters		30-800	mm
Tube inside diameter		30-840	mm
Tube outside diameter		50-880	mm
Length standard		1000/2000	mm
Sheet size		1000/1220x1000/2000/3050	mm
Sheet thickness		8-165	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.13	g/cm³
Food contact allowed		Low	
Wear Resistance		High	
Dimensional stability		Medium	
Mechanical properties	**Test standard**	**Value**	**Unit**
Yield stress	ISO 527	80	MPa
Elongation at break	ISO 527	55	%
Modulus of elasticity in tension	ISO 527	2500	MPa
Bending modulus	Flexural test	2800	MPa
Flexural strength	ISO 178	135	MPa
Charpy impact strength +23°C	ISO 179/1eU	no break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	>12	kJ/m²
Ball indentation hardness	ISO 2039	140	N/mm²
Thermal properties	**Test standard**	**Value**	**Unit**
Thermal conductivity	Method A	0,23	W/m°K
Specific heat capacity	IEC 1006	1,7	J/g.K
Min. working temperature		-40	°C
Max. working temperature		105	°C
Inter. working temperature		160	°C
Melting temperature	ISO 3146	220	°C
Thermal coefficient of linear expansion	DIN 53752	7-8	1/K.10-5
Moisture absorption at 23°C. 50% RH	ISO 62	1.9	%
Water absorption at 23 °C	ISO 62	5.8	%
Flammability	UL 94	HB	[-]
Friction properties	**Test standard**	**Value**	**Unit**
Coefficient of friction		High	
Electrical properties	**Test standard**	**Value**	**Unit**
Dielectric strength	IEC 243	50	KV/mm
Dielectric constant at 1MHZ	IEC 250	3.7	[-]
Volume resistivity	IEC 93	10 15	Ω.cm
Surface resistivity	IEC 93	10 13	Ω
Resistance to tracking (CTI)	DIN EN 60112	600	[-]

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