ASEC



ENGINEERING PLASTICS PA AE-ZL1200

SKU: AEZL1200

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Categories: PA, PA12

Features

- High crystalline structure for rigid applications.
- Color natural.

Application
Vibration dampeners, tie fasteners for high speed rail roads, shock absorbers in bumpers and crash buffers in railway-wagons, mobile phone antennas.

Material
Cast Polyamide 12.

AEZL1200 is manufactured from the raw material Laurin lactam in a pressure less monomer molding process. The seamless transition from polymerization to crystallization creates a high crystalline structure for rigid applications.

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Availablity		Value	Unit
Rod diameters		30-250	mm
Tube inside diameter		30-230	mm
Tube outside diameter		20-250	mm
Length standard		1000 / 3000	mm
Sheet size		1000x3000	mm
Sheet thickness		8-60	mm
Physical properties	**Test standard**	**Value**	**Unit**
Density		1.03	g/cm³
Food contact allowed		High	
Wear Resistance		High	
Dimensional stability		Medium	
Mechanical properties	**Test standard**	**Value**	**Unit**
Yield stress	ISO 527	60	MPa
Elongation at break	ISO 527	55	%
Modulus of elasticity in tension	ISO 527	2200	MPa
Bending modulus	Flexural test	2400	MPa
Flexural strength	ISO 178	90	MPa
Charpy impact strength +23°C	ISO 179/1eU	no break	kJ/m²
Charpy notched impact strength +23°C	ISO/1eA	>15	kJ/m²
Thermal properties	**Test standard**	**Value**	**Unit**
Min. working temperature		-60	°C
Max. working temperature		110	°C
Inter. working temperature		150	°C
Melting temperature	ISO 3146	190	°C
Thermal coefficient of linear expansion	DIN 53752	10-11	1/K.10-5
Thermal conductivity	Method A	0.23	W/m°K
Specific heat capacity	IEC 1006	1.7	J/g.K
Moisture absorption at 23°C. 50% RH	ISO 62	0.9	%
Water absorption at 23 °C	ISO 62	1.4	%
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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