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Datasheet AE1115



AE1115 has higher impact strength, lower moisture absorption and better creep resistance than AE1100.

Application

Material

Cast Polyamide 6/12.

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 thickness	8-165	mm	
Sheet size	1000/1220x1000/2000/3050	mm	



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AE1115 - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,13	g/cm³
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	1,9	%
Water absorption at 23 °C	ISO 62	5,8	%
Flammability	UL 94	НВ	[-]

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
Compressive modulus		on request	

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-40	°C
Max. working temperature		105	°C
Intermittent working temperature		160	°C
Heat distortion temperature		on request	
Melting temperature	ISO 3146	220	°C
Thermal coefficient of linear expansion	DIN 53752	7 - 8	1/K.10-5

Friction properties

Tost standard	Value	Unit
Test standard	Value	Unit

Electrical properties

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	Test standard	Value	Unit	
Dielectric constant		on request		
Dielectric loss factor		on request		
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	

The information in this datasheet is provided for general purposes only and not meant to be a specific recommendation for any individual application. All values were determined under laboratory conditions. ASEC Products is not directly neither indirectly responsible for any claim resulting from the use of any information provided in this datasheet.

Electrical properties

Resistance to tracking (CTI) DIN EN 60112 600 [-]

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