AKROMID®

B3 natural (2500)

Polyamide 6

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Datasheet

Description

AKROMID B3 natural (2500) is a nonreinforced polyamide 6 with light inherent color

Applications

Applications are engineering parts like fasteners, clips, plugs and caps.

Typical values	Test specification	Method	Units	Values	
				d.a.m.	moist.*
Mechanical Properties					
Tensile modulus	1 mm/min	ISO 527-2	MPa	3600	1200
Elongation at break	50 mm/min	ISO 527-2	%	20	>50
Tensile stress at yield	50 mm/min	ISO 527-2	MPa	85	45
Flexural modulus	2 mm/min	ISO 178	MPa	3100	
Flexural strength	2 mm/min	ISO 178	MPa	120	
Charpy impact strength	23°C	ISO 179/1eU	kJ/m²	n. b.	n. b.
Charpy impact strength	-30°C	ISO 179/1eU	kJ/m²	n. b.	
Charpy notched impact strength	23°C	ISO 179/1eA	kJ/m²	3	12
Charpy notched impact strength	-30°C	ISO 179/1eA	kJ/m²	2	
Thermal Properties					
Melting Point	DSC, 10K/min	DIN EN 11357-1	°C	220	
Heat distortion temperature HDT/A	1,8 MPa	ISO 75	°C	60	
Heat distortion temperature HDT/B	0,45 MPa	ISO 75	°C	180	
Electrical Properties					
Surface resistivity		IEC 60093	Ohm	10E12	
Volume resistivity		IEC 60093	Ohm x cm	10E13	
CTI	test solution A	IEC 60112		600	
Physical Properties					
Density	23°C	ISO 1183	g/cm³	1,13	
Humidity absorption	23°C, 50% r.h.	ISO 62	%	2,6 - 3,4	
Water absorption	23°C/saturated	ISO 62	%	9,0 - 10,0	
Molding shrinkage	flow	ISO 294-4	%	1,11	
Molding shrinkage	transverse	ISO 294-4	%	0,95	
Flammability					
Flammability	1,6 mm	UL 94	class	V-2	
Burning rate (< 100 mm/min)	> 1 mm thickness	FMVSS 302	mm/min	+	
GWFI	1,6 mm	IEC 60695-2-12	°C	750	
Rheological Properties					
Flowability	Flowspiral[1]	AKRO	mm	1070	

* moist. = specimen acc. ISO 1110 stored; n.b. = not broken

[1] = mould temperature: 80°C, melt temperature: 270°C, injection pressure:750 bar, cross section of flow spiral: 7 mm x 3,5 mm

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