AKROMID ®

A3 GF 35 3 black (1802)

PA66 GF35

AKRO-PLASTIC GmbH
Member of the Feddersen Group

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Datasheet

Description:

AKROMID® A3 GF 35 3 black (1802) is a 35% glass fibre reinforced, nucleated polyamide 6.6 with high stiffness and strength

Applications

Components in mechanical engineering and in the automotive industry

Typical values	Test specification	Method	Unit	Value	
				d.a.m.	moist.*
Mechanical Properties					
Tensile modulus	1 mm/min	ISO 527-2	MPa	11500	8400
Stress at break	5 mm/min	ISO 527-2	MPa	180	120
Strain at break	5 mm/min	ISO 527-2	%	2,3	4,2
Flexural modulus	2 mm/min	ISO 178	MPa	8000	
Flexural strength	2 mm/min	ISO 178	MPa	250	
Flexural strain at break	2 mm/min	ISO 178	%	3,7	
Charpy impact strength	23°C	ISO 179-1/1eU	kJ/m²	50	> 55
Charpy impact strength	-30°C	ISO 179-1/1eU	kJ/m²	53	
Charpy notched impact strength	23°C	ISO 179-1/1eA	kJ/m²	9	13
Charpy notched impact strength	-30°C	ISO 179-1/1eA	kJ/m²	6	
Thermal Properties					
Melting temperature	DSC, 10K/min	DIN EN 11357-1	°C	262	
Temp. of deflection under load HDT/A	1,8 MPa	ISO 75	°C	250	
Temp. of deflection under load HDT/B	0,45 MPa	ISO 75	°C	265	
Flammability					
Wall thickness			mm	0,4 / 0,8 / 1,6 / 2,0 / 3,2	
Flammability		UL 94	class	HB	
Burning rate (< 100 mm/min)	> 1 mm thickness	FMVSS 302		+	
General Properties					
Density	23°C	ISO 1183	g/cm³	1,41	
Content reinforcement/Content Filler		ISO 1172	%	35	
Processing					
Molding shrinkage	flow	ISO 294-4	%	0,1 - 0,3	
Molding shrinkage	transverse	ISO 294-4	%	0,65 - 0,85	

AKRO-PLASTIC GmbH
Commercial registered office: Niederzissen
Commercial Register: Koblenz HRB 12227
Managing Director: Andreas Stuber, Dirk Steinbrück
Chairman of the Supervisory Board: Dr. Matthias von Rönn

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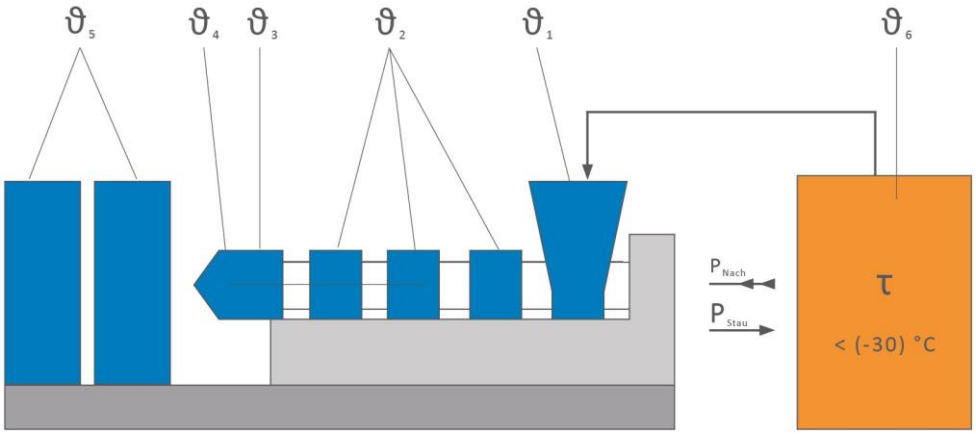
Continuation

Processing recommendations



ϑ_6	Drying time	h	0 - 4
ϑ_6	Drying temperature	°C	80
	Processing moisture	%	0,02 - 0,1
ϑ_1	Feed section	°C	60 - 80
ϑ_2	Section 1 - Section 4	°C	260 - 300
ϑ_3	Nozzle	°C	270 - 310
ϑ_4	Melt	°C	280 - 300
ϑ_5	Mould	°C	80 - 100
P_{Nach}	Holding pressure, spec.	bar	300 - 800
P_{Stau}	Back pressure, spez.	bar	50 - 150
	Injection speed		medium to high
	Screw speed	m/min	8 - 15

The listed values are recommendations. Higher values should be used for higher glass loadings.
We recommend only de-humidifying or vacuum dryers. Extensive drying can cause filling problems and surface defects.

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