

AKROMID® S3 8 natural (4881)

Preliminary Technical Description



Product Description

AKROMID® S3 8 natural (4881): Partially biobased injection moulding grade based on Polyamide 6.10

Applications: Components in food industry

Suitable for: Injection moulding parts

Reinforcement: no

Food contact approval: Yes, EU 10/2011

Properties*

	Standard	Unit	AKROMID® S3 8 natural (4881)
Melting point	-	°C	220
Density	ISO 1183	g/cm ³	1.08
Humidity absorption (70 °C, 62 % r.H.)	ISO 1110	%	1.7
Renewable content	-	%	~60
Tensile modulus (d.a.m./conditioned)	ISO 527-2	MPa	2,300/1,200
Stress at yield (d.a.m./conditioned)	ISO 527-2	MPa	65/50
Strain at break (d.a.m./conditioned)	ISO 527-2	%	>75/>75
Charpy impact strength (d.a.m./conditioned)	ISO 179-1/1eU	kJ/m ²	n.b./n.b.
Charpy notched impact strength (d.a.m./conditioned)	ISO 179-1/1eA	kJ/m ²	4/12
Heat distortion temperature, HDT/A	ISO 75/A	°C	55
Mold shrinkage (flow/transverse)	ISO 294-4	%	1.6/1.8

The information contained herein is based on our current knowledge and experience. A legally binding promise of certain characteristics or suitability for a concrete individual case cannot be derived from this information. The information supplied here is not intended to release processors and users from the responsibility of carrying out their own tests and inspections in each concrete individual case. BIO-FED®, AKROMID® and AF-Eco® are registered brands of AKRO-PLASTIC GmbH.



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Processing Guide



Processing Recommendations

Drying:

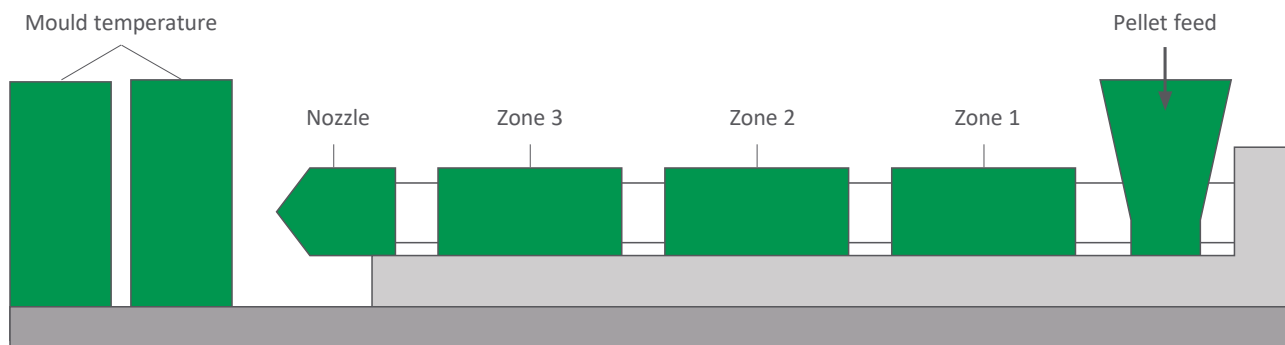
- Drying time 0–4 h
- Drying temperature 80 °C
- Processing moisture 0.02–0.1 %

Equipment:

- AKROMID® S grades are designed for standard equipment

Processing Temperatures

Grade	Mould Temp.	Nozzle	Zone 3	Zone 2	Zone 1
AKROMID® S3 8 natural (4881)	40–80 °C	230–280 °C	230–270 °C	230–270 °C	230–270 °C



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