

AKROMID®

A3 1 S3 grey (2955)

PA66+PA6-I

AKROMID® A3 1 S3 grey (2955) is an unreinforced, impact modified Polyamide 6.6 in grey color, similar to RAL 7011. It is characterised by a medium dry impact strength. Furthermore, the material is heat stabilised and therefore perfectly suitable for connecting and fixing systems which are used at elevated temperatures in the automotive and electro industry.

Features

heat stabilised 130

impact modified

Properties

Modulus

2.500 MPa

Strength

68 MPa

Impact

180 kJ/m²

Mechanical Properties

Tensile modulus

ISO 527-2

1 mm/min | d.a.m.

2500 MPa

Tensile stress at yield

ISO 527-2

50 mm/min | d.a.m.

68 MPa

Tensile strain at break

ISO 527-2

50 mm/min | d.a.m.

> 25 %

Charpy impact strength

ISO 179-1/1eU

23°C | d.a.m.

no break

Charpy notched impact strength

ISO 179-1/1eA

23°C | d.a.m.

11 kJ/m²

-30°C | d.a.m.

8 kJ/m²

Thermal Properties

Temperature of deflection under load HDT/A

ISO 75

1,8 MPa

60 °C

Melting temperature

ISO 11357-3

DSC, 10K/min

260 °C

Flammability

Flammability

UL 94

1,6 mm Wall thickness

HB Class

Burning rate (<100 mm/min)

FMVSS 302

> 1 mm Thickness

+

General Properties

Density

ISO 1183

23°C

1,11 g/cm³

Molding shrinkage

ISO 294-4

flow

1,3 - 1,5 %

transverse

1,5 - 1,7 %

Processing

The values mentioned are recommendations. We only recommend desiccant / dry air dryers or vacuum dryers. Too long a drying time and the resulting residual moisture content below the lower limit can lead to filling problems and surface defects. The specified drying time refers to closed and undamaged bagged material. When processing from previously opened bags or from octabins with polyolefin inliners, a longer drying time may be necessary. It is recommended to check the residual moisture content after the drying process.



D	Drying time	2 - 4 h
	Drying temperature ($\tau \leq -30^{\circ}\text{C}$)	80 °C
	Processing moisture	0,02 - 0,1 %
1	Feed section	60 - 80 °C
2	Temperature Zone 1 - Zone 4	260 - 300 °C
3	Nozzle temperature	270 - 310 °C
4	Melt temperature	270 - 300 °C
5	Mold temperature	40 - 90 °C
→	Holding pressure, spec.	300 - 800 bar
←	Back pressure, spec.	50 - 150 bar
	Injection speed	medium to high
	Screw speed	8 - 15 m/min