+135-3858-6433 (GuangDong)
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AKRO COMPOUNDS

Compound No.: **8029**

AKROMID®
C3 5 S3 black (8029)

PA66+PA6

AKROMID® C3 5 S3 black (8029) is an unreinforced, impact modified polyamide 6.6/6 blend. It is characterised by higher dry impact strength compared to standard polyamide 6.6/6 blends while maintaining good flowability. Furthermore, the material is high 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 | easy flow

Properties

Modulus	Strength	Impact
2.500 MPa	**65** MPa	**180** kJ/m²

Mechanical Properties

Tensile modulus ISO 527-2	1 mm/min | d.a.m. 1 mm/min | conditioned	**2500 MPa** **900 MPa**
Tensile stress at yield ISO 527-2	50 mm/min | d.a.m. 50 mm/min | conditioned	**65 MPa** **45 MPa**
Tensile strain at break ISO 527-2	50 mm/min | d.a.m. 50 mm/min | conditioned	**> 25 %** **> 250 %**
Flexural modulus ISO 178	2 mm/min | d.a.m.	**2100 MPa**
Flexural strength ISO 178	2 mm/min | d.a.m.	**85 MPa**
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. 23°C | conditioned	**7 kJ/m²** **23 kJ/m²**

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Thermal Properties

Temperature of deflection under load HDT/B ISO 75	0,45 MPa	**160 °C**
Melting temperature ISO 11357-3	DSC, 10K/min	**260 °C**

Flammability

Burning rate (<100 mm/min) FMVSS 302	> 1 mm Thickness	+

General Properties

Density ISO 1183	23°C	**1,12 g/cm³**
Molding shrinkage ISO 294-4	flow transverse	**1,3 - 1,5 %** **1,5 - 1,7 %**

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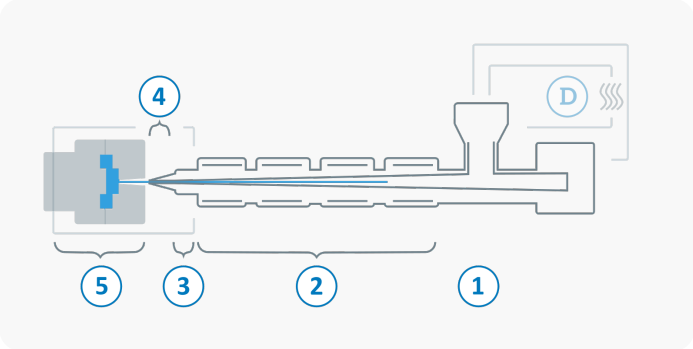
Processing

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	0 - 4 h
	Drying temperature (τ <= -30°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 - 300 °C
4	Melt temperature	270 - 300 °C
5	Mold temperature	40 - 80 °C
→	Holding pressure, spec.	300 - 800 bar
←	Back pressure, spec.	50 - 150 bar
	Injection speed	medium to high
	Screw speed	8 - 15 m/min