

PA6.6/6 – Polyamide 6.6/6 PA66 + PA 6 FR (30)

## AKROMID® C3 1 FR black (5266)

Tensile modulus

### 3400 MPa

1 mm/min

ISO 527-2

Stress at yield

### 75 MPa

50 mm/min

ISO 527-2

Charpy impact strength

### n.b. kJ/m<sup>2</sup>

23°C

ISO 179-1/1eU

AKROMID® C3 1 FR black (5266) is an at UL listed, unreinforced, heat stabilised and halogen-free flame retardant polyamide 6.6/6-Blend with good flow properties and suitable for moulded integral hinges. Improved Surface appearance

### Typical applications

Switches and housings in the electric industry.

### Regulatory



### Mechanical Properties

Tensile modulus (1 mm/min | ISO 527-2)

d.a.m.

3400 MPa

conditioned

1300 MPa

Stress at yield (50 mm/min | ISO 527-2)

d.a.m.

75 MPa

conditioned

40 MPa

Strain at break (50 mm/min | ISO 527-2)

d.a.m.

&gt;10 %

conditioned

&gt;50 %

Charpy impact strength (23°C | ISO 179-1/1eU)

d.a.m.

n.b. kJ/m<sup>2</sup>

conditioned

n.b.

Charpy impact strength (-30°C | ISO 179-1/1eU)

d.a.m.

90 kJ/m<sup>2</sup>

Charpy notched impact strength (23°C | ISO 179-1/1eA)

d.a.m.

4 kJ/m<sup>2</sup>

Charpy notched impact strength (-30°C | ISO 179-1/1eA)

d.a.m.

3 kJ/m<sup>2</sup>

### Thermal Properties

Temperature of deflection under load HDT/A (1,8 MPa | ISO 75)

70 °C

Temperature of deflection under load HDT/B (0,45 MPa | ISO 75)

210 °C

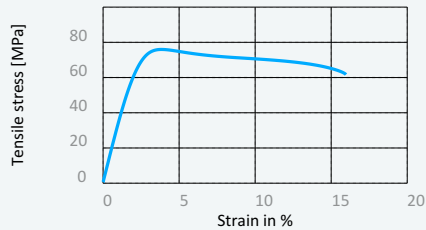
Melt temperature (DSC, 10K/min | DIN EN 11357-1)

260 °C

#### Disclaimer:

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Stress strain chart at 23°C

**Flammability****Burning rate (UL 94)**

0,4mm Wall thickness  
 0,8mm Wall thickness  
 1,6mm Wall thickness  
 3,2mm Wall thickness

V-0 Class  
 V-0 Class  
 V-0 Class  
 V-0 Class

**GWFI (IEC 60695-2-12)**

0,4mm Wall thickness  
 0,8mm Wall thickness  
 1,6mm Wall thickness  
 3,2mm Wall thickness

960 °C  
 960 °C  
 960 °C  
 960 °C

**GWIT (IEC 60695-2-13)**

0,4mm Wall thickness  
 0,8mm Wall thickness  
 1,6mm Wall thickness  
 3,2mm Wall thickness

775 °C  
 775 °C  
 775 °C  
 775 °C

**HWI (UL 746A)**

0,4mm Wall thickness  
 0,8mm Wall thickness  
 1,6mm Wall thickness  
 3,2mm Wall thickness

4 PLC  
 4 PLC  
 0 PLC  
 0 PLC

**HAI (UL 746A)**

0,4mm Wall thickness  
 0,8mm Wall thickness  
 1,6mm Wall thickness  
 3,2mm Wall thickness

0 PLC  
 0 PLC  
 0 PLC  
 0 PLC

**Oxygen index (ISO 4589-2)**

34,5 %

**Protection Train (EN 45545-2)**

R22/23/24/26 HL3

**General properties**

Density (23°C | ISO 1183)

1,16 g/cm<sup>3</sup>

Humidity absorption (70°C, 62% r.H. | ISO 1110)

2,1-2,3 %

Molding shrinkage (flow | ISO 294-4)

1,2 %

Molding shrinkage (transverse | ISO 294-4)

1,4 %

**Electrical Properties**

Comparative tracking index (Test liquid A | IEC 60112)

>600 V

Dielectric strength (3 mm | IEC 60243)

10 kV/mm

Inclined-Plane Tracking, IPT (ASTM D2303-13)

1 kV

High voltage tracking rate, HVTR (UL 746A)

0 PLC

**Disclaimer:**

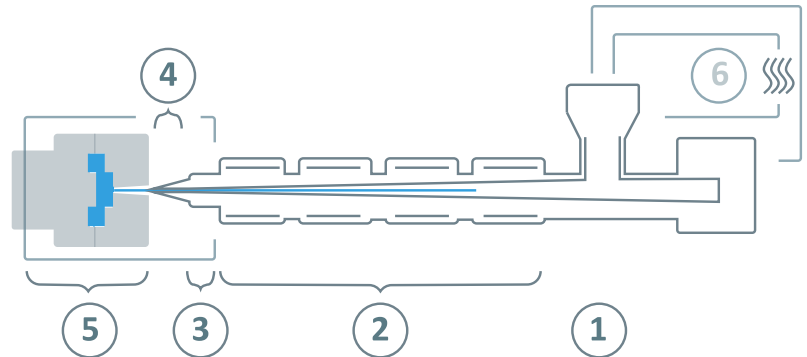
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### Processing information

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



⑥	Drying time	2 - 4 h
	Drying temperature ( $\tau \leq -30^\circ\text{C}$ )	80°C
	Processing moisture	0,02 - 0,08%
①	Feed section	60 - 80°C
②	Temperature zone 1 - Zone 4	260 - 280°C
③	Nozzle temperature	260 - 280°C
④	Melt temperature	260 - 280°C
⑤	Mold temperature	60 - 100°C
→	Holding pressure, spec.	300 - 800 bar
←	Back pressure, spec.	30 - 100 bar
	Injection speed	medium
	Screw speed	5 - 10 m/min

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