

Compound No.: 2892

AKROMID® A3 1 S3 15 natural (2892)

PA66-I

AKROMID® A3 1 S3 15 natural (2892) is an unreinforced, impact modified Polyamide 6.6. It is characterised by a medium dry impact strength whilst maintaining good flowability. 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. Its good flowability qualifies the material for processing in multi-cavity moulds. The material has a light inherent color.

heat stabilised 130 impact modified Properties Modulus Strength Impact 2.700 MPa 63 MPa 180 kJ/m²

Mechanical Properties

1 mm/min d.a.m.	2700 MPa
1 mm/min conditioned	1300 MPa
50 mm/min d.a.m.	63 MPa
50 mm/min conditioned	45 MPa
50 mm/min l d a m	7 %
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50 mm/min d.a.m.	> 35 %
50 mm/min conditioned	> 100 %
23°C d.a.m.	no break
23°C conditioned	no break
23°C d.a.m.	15 kJ/m²
23°C conditioned	95 kJ/m²
-30°C d.a.m.	10 kJ/m²
	1 mm/min conditioned 50 mm/min d.a.m. 50 mm/min conditioned 50 mm/min d.a.m. 50 mm/min d.a.m. 50 mm/min conditioned 23°C d.a.m. 23°C d.a.m. 23°C conditioned



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Izod notched impact strength ISO 180/1A	23°C d.a.m. -20°C d.a.m. -40°C d.a.m.	15 kJ/m² 12 kJ/m² 12 kJ/m²
Ball indentation hardness ISO 2039-1	358N/30s d.a.m.	93 MPa

Thermal Properties

Temperature of deflection under load HDT/A	1,8 MPa	70 °C
Temperature of deflection under load HDT/B	0,45 MPa	213°C
Melting temperature ISO 11357-3	DSC, 10K/min	262 °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	1,1 g/cm³
Humidity absorption ISO 1110	70°C, 62% r.H.	2,1 %
Molding shrinkage	flow	1,3 - 1,5 %
ISO 294-4	transverse	1,5 - 1,7 %

Electrical Properties

Volume resistivity	d.a.m.	10 ¹⁵ Ω x cm
IEC 62631-3-1	a.a	10 11 X CIII

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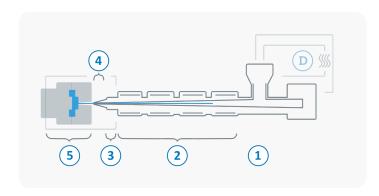
Surface resistivity IEC 62631-3-2	d.a.m.	10 ¹⁴ Ω
Comparative tracking index IEC 60112	Test liquid A	600 V





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 (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 - 310 °C
4	Melt temperature	270 - 300 °C
5	Mold temperature	40 - 90 °C
\ominus	Holding pressure, spec.	300 - 800 bar
	Back pressure, spec.	50 - 150 bar
	Injection speed	medium to high
	Screw speed	8 - 15 m/min