

**AKROMID® B3 GF 50 8 natural (4301)**

PA6-GF50

Akro-Plastic GmbH

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5 / *	%	ISO 294-4, 2577

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	17000 / 11500	MPa	ISO 527
Stress at break	240 / 160	MPa	ISO 527
Strain at break	3 / 4.9	%	ISO 527
Flexural modulus, 23°C	16000 / 11500	MPa	ISO 178
Flexural strength	360 / 250	MPa	ISO 178
Charpy impact strength, +23°C	100 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	90 / -	kJ/m <sup>2</sup>	ISO 179/1eU

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	220 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	220 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	185 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	11 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	94 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Glow Wire Flammability Index (GWFI)	650	°C	IEC 60695-2-12
GWFI - thickness tested (1)	1.6	mm	-

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Volume resistivity	1E11 / -	Ohm*m	IEC 62631-3-1
Comparative tracking index	550 / -	-	IEC 60112

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Water absorption	5.1 / *	%	Sim. to ISO 62
Density	1560 / -	kg/m <sup>3</sup>	ISO 1183

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Melt temperature	270	°C	-
Mold temperature	80	°C	-
Injection pressure	75	MPa	-

**Characteristics****Processing**

Injection Molding

**Certifications**

Food contact

**Delivery form**

Natural Color

**Regional Availability**

Europe, Asia Pacific