

**AKROMID® B3 GF 50 RM-M black (3146)**

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	<b>0.4 / *</b>	%	ISO 294-4, 2577
Molding shrinkage, normal	<b>0.7 / *</b>	%	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	<b>17000 / 12000</b>	MPa	ISO 527
Stress at break	<b>210 / 135</b>	MPa	ISO 527
Strain at break	<b>2.2 / 3</b>	%	ISO 527
Flexural modulus, 23°C	<b>17500 / 13000</b>	MPa	ISO 178
Flexural strength	<b>320 / 220</b>	MPa	ISO 178
Charpy impact strength, +23°C	<b>70 / 70</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength, -30°C	<b>60 / 60</b>	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	<b>20 / 20</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C	<b>15 / 20</b>	kJ/m <sup>2</sup>	ISO 179/1eA
Ball indentation hardness	<b>280 / -</b>	MPa	ISO 2039-1

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature, 10°C/min	<b>225 / *</b>	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	<b>215 / *</b>	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	<b>165 / *</b>	°C	ISO 75-1/-2
Burning behav. at thickness h	<b>HB / *</b>	class	IEC 60695-11-10
Thickness tested	<b>0.8 / *</b>	mm	-
Glow Wire Flammability Index (GWFI)	<b>650</b>	°C	IEC 60695-2-12
GWFI - thickness tested (1)	<b>1.6</b>	mm	-
Glow Wire Ignition Temperature (GWIT)	<b>650</b>	°C	IEC 60695-2-13
GWIT - thickness tested (1)	<b>1.6</b>	mm	-

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Comparative tracking index	<b>600 / -</b>	-	IEC 60112

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1620 / -</b>	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	<b>270</b>	°C	-
Mold temperature	<b>80</b>	°C	-
Injection pressure	<b>75</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Applications**

Automotive, Electrical and Electronical

**Delivery form**

Black

**Regional Availability**

Europe, Asia Pacific