

**AKROMID® B3 GF 50 1 black (20008)**

PA6-GF50

Akro-Plastic GmbH

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

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	17000 / 11000	MPa	ISO 527
Stress at break	210 / 140	MPa	ISO 527
Strain at break	3 / 5	%	ISO 527
Flexural modulus, 23°C	16500 / 11000	MPa	ISO 178
Flexural strength	330 / 230	MPa	ISO 178
Charpy impact strength, +23°C	100 / 100	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength, +23°C	18 / 23	kJ/m <sup>2</sup>	ISO 179/1eA
Ball indentation hardness	270 / -	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
<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	-

Electrical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Volume resistivity	1E11 / 1E8	Ohm*m	IEC 62631-3-1
Surface resistivity	* / 1E10	Ohm	IEC 62631-3-2
Comparative tracking index	600 / -	-	IEC 60112

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

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

**Characteristics**

**Processing**  
Injection Molding

**Applications**  
Automotive

**Delivery form**  
Black

**Regional Availability**  
Europe, Asia Pacific

**Special Characteristics**  
Heat stabilized or stable to heat