

AKROMID® B3 GF 45 1 black (3851)

PA6-GF45

Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	14500 / 8500	MPa	ISO 527
Stress at break	200 / 140	MPa	ISO 527
Strain at break	4.5 / 8.5	%	ISO 527
Flexural modulus, 23°C	13000 / 7500	MPa	ISO 178
Flexural strength	315 / 200	MPa	ISO 178
Charpy impact strength, +23°C	110 / 108	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	95 / 108	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	20 / 25	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	16 / 15	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	200 / *	°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	145 / *	°C	ISO 75-1/-2

Other properties	dry / cond	Unit	Test Standard
Density	1500 / -	kg/m ³	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

Delivery form

Black

Special Characteristics

Heat stabilized or stable to heat

Applications

Automotive, Sports Equipment

Regional Availability

Europe, Asia Pacific