AKROMID® B+ GF 50 1 black (7380)

PA6-GF50 Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.1 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.6 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**16500 / 9800**	MPa	ISO 527
Stress at break	**225 / 162**	MPa	ISO 527
Strain at break	**3.5 / 5**	%	ISO 527
Flexural modulus, 23°C	**16500 / -**	MPa	ISO 178
Flexural strength	**363 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**106 / -**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**105 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**22 / -**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**17 / -**	kJ/m²	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	**210 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**218 / ***	°C	ISO 75-1/-2

Other properties	dry / cond	Unit	Test Standard
Density	**1570 / -**	kg/m³	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

Regional Availability
Europe, Asia Pacific