AKROMID® B3 GF 50 natural (3785)

PA6-GF50 — Akro-Plastic GmbH

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.2**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.9**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**16500**	MPa	ISO 527
Stress at break	**240**	MPa	ISO 527
Strain at break	**2.6**	%	ISO 527
Flexural modulus, 23°C	**14900**	MPa	ISO 178
Flexural strength	**340**	MPa	ISO 178
Charpy impact strength, +23°C	**100**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**90**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**20**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**16**	kJ/m²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
ISO Data			
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	Value	Unit	Test Standard
ISO Data			
Volume resistivity	**1E11**	Ohm*m	IEC 62631-3-1
Comparative tracking index	**550**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Water absorption	**5.1**	%	Sim. to ISO 62
Density	**1560**	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

Applications
Automotive

Delivery form
Natural Color

Regional Availability
Europe, Asia Pacific