

AKROMID® B3 GF 35 black (2196)

PA6-GF35

Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	11500 / 7300	MPa	ISO 527
Stress at break	195 / 120	MPa	ISO 527
Strain at break	3 / 5	%	ISO 527
Flexural modulus, 23°C	10000 / -	MPa	ISO 178
Flexural strength	285 / -	MPa	ISO 178
Charpy impact strength, +23°C	100 / 110	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	90 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	15 / 21	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	13 / -	kJ/m ²	ISO 179/1eA
Ball indentation hardness	240 / -	MPa	ISO 2039-1

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	215 / *	°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	165 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB / *	class	IEC 60695-11-10
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
ISO Data			
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	6.5 / *	%	Sim. to ISO 62
Density	1410 / -	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

Applications
Automotive

Delivery form
Black

Regional Availability
Europe, Asia Pacific