AKROMID® A3 GM 20/10 S1 black (4817)

PA66-(GF+GB)30 — Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.5 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.3 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**6900 / 4200**	MPa	ISO 527
Stress at break	**130 / 85**	MPa	ISO 527
Strain at break	**4 / 10**	%	ISO 527
Flexural modulus, 23°C	**6900 / -**	MPa	ISO 178
Flexural strength	**205 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**80 / 80**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**76 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**15 / 16**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**8 / -**	kJ/m²	ISO 179/1eA
Ball indentation hardness	**127 / -**	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**262 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**245 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**260 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**27 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**111 / ***	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	-

Other properties	dry / cond	Unit	Test Standard
Water absorption	**5.1 / ***	%	Sim. to ISO 62
Density	**1310 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	**320**	°C	-
Mold temperature	**100**	°C	-
Injection pressure	**75**	MPa	-

Characteristics

Processing
Injection Molding

Delivery form
Black

Special Characteristics
High impact or impact modified

Features
Low Warpage

Applications
Automotive

Regional Availability
Europe, Asia Pacific