AKROMID® A3 GF 30 5 black (2180)

PA66-GF30 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	**0.8 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**9500 / 7000**	MPa	ISO 527
Stress at break	**190 / 120**	MPa	ISO 527
Strain at break	**3.5 / 5.5**	%	ISO 527
Flexural modulus, 23°C	**8500 / 7000**	MPa	ISO 178
Flexural strength	**280 / 210**	MPa	ISO 178
Charpy impact strength, +23°C	**85 / 95**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**80 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**10 / 15**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**9 / -**	kJ/m²	ISO 179/1eA

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	**255 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	**210 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**19 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**95 / ***	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	**5.8 / ***	%	Sim. to ISO 62
Density	**1360 / -**	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
Heat stabilized or stable to heat

Applications
Automotive

Regional Availability
Europe, Asia Pacific