AKROMID® A3 GF 30 4 black (3571)

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	**11500 / 6800**	MPa	ISO 527
Stress at break	**210 / 140**	MPa	ISO 527
Strain at break	**3.5 / 7**	%	ISO 527
Flexural modulus, 23°C	**10000 / -**	MPa	ISO 178
Flexural strength	**310 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**80 / 100**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**65 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**12 / 20**	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	**250 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**260 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	**205 / ***	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**HB / ***	class	IEC 60695-11-10
Thickness tested	**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

Other properties	dry / cond	Unit	Test Standard
Density	**1370 / -**	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

Chemical Resistance
General Chemical Resistance, Hydrolytically Stable

Applications
Automotive

Regional Availability
Europe, Asia Pacific