AKROMID® A3 GM 20/10 4 WIT black (4529)

PA66-(GF+GB)30 — Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	**6 / ***	cm³/10min	ISO 1133
Temperature	**275 / ***	°C	-
Load	**5 / ***	kg	-
Molding shrinkage, parallel	**0.4 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.8 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**8200 / 5200**	MPa	ISO 527
Stress at break	**175 / 100**	MPa	ISO 527
Strain at break	**3.7 / 11.5**	%	ISO 527
Flexural modulus, 23°C	**7600 / 5200**	MPa	ISO 178
Flexural strength	**260 / 170**	MPa	ISO 178
Charpy impact strength, +23°C	**65 / 80**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**50 / 48**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**9 / 9.5**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**7 / 6.5**	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	**240 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**260 / ***	°C	ISO 75-1/-2
Burning behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	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	**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

Features
Low Warpage

Chemical Resistance
General Chemical Resistance, Hydrolytically Stable

Regional Availability
Europe, Asia Pacific