AKROMID® A3 ICF 30 black (5021)

PA66-CF30 — 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	**24000 / 15000**	MPa	ISO 527
Stress at break	**240 / 170**	MPa	ISO 527
Strain at break	**1.8 / 3.5**	%	ISO 527
Flexural modulus, 23°C	**22000 / 14000**	MPa	ISO 178
Flexural strength	**370 / 265**	MPa	ISO 178
Charpy impact strength, +23°C	**55 / 70**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**55 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**8 / 11**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**6 / -**	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	**254 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**6 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**72 / ***	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	-
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			
Surface resistivity	*** / 10000**	Ohm	IEC 62631-3-2

Other properties	dry / cond	Unit	Test Standard
Density	**1280 / -**	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
Tribologic Grade

Regional Availability
Europe, Asia Pacific