AKROMID® C3 GF 50 1 black (4401)

(PA66+PA6)-GF50 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	**0.5 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**16000 / 11000**	MPa	ISO 527
Stress at break	**240 / 165**	MPa	ISO 527
Strain at break	**2.5 / 4**	%	ISO 527
Flexural modulus, 23°C	**16200 / -**	MPa	ISO 178
Flexural strength	**360 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**95 / 100**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**20 / 20**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**20 / -**	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**260 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**250 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	**220 / ***	°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
Comparative tracking index	**600 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Density	**1570 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	**300**	°C	-
Mold temperature	**90**	°C	-
Injection pressure	**75**	MPa	-

Characteristics

Processing
Injection Molding

Applications
Automotive

Delivery form
Black

Regional Availability
Europe, Asia Pacific

Special Characteristics
Heat stabilized or stable to heat