AKROMID® C3 GF 60 1 black (4659)

(PA66+PA6)-GF60 Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
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	**21300 / 13200**	MPa	ISO 527
Stress at break	**270 / 180**	MPa	ISO 527
Strain at break	**2.3 / 4**	%	ISO 527
Flexural modulus, 23°C	**22500 / -**	MPa	ISO 178
Flexural strength	**425 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**96 / 103**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**19 / 24**	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, 0.45 MPa	**255 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	**212 / ***	°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	**1710 / -**	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

Delivery form
Black

Special Characteristics
Heat stabilized or stable to heat

Applications
Automotive

Regional Availability
Europe, Asia Pacific