AKROMID® A3 GF 40 1 LT black (5709)

PA66-GF40 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	**0.7 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**13000 / 9800**	MPa	ISO 527
Stress at break	**225 / 160**	MPa	ISO 527
Strain at break	**3 / 4**	%	ISO 527
Flexural modulus, 23°C	**12000 / 9300**	MPa	ISO 178
Flexural strength	**360 / 260**	MPa	ISO 178
Charpy impact strength, +23°C	**100 / 105**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**95 / 95**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**17 / 20**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**15 / 15**	kJ/m²	ISO 179/1eA
Ball indentation hardness	**270 / -**	MPa	ISO 2039-1

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	**260 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	**225 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**16 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**86 / ***	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	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	**600 / -**	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
Density	**1460 / -**	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

Special Characteristics
Heat stabilized or stable to heat

Features
Laser Weldable

Applications
Automotive, Electrical and Electronical

Regional Availability
Europe, Asia Pacific