AKROMID® S3 GF 50 1 black (3441)

PA610-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	**0.7 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**14500 / 11000**	MPa	ISO 527
Stress at break	**200 / 150**	MPa	ISO 527
Strain at break	**3.5 / 4.5**	%	ISO 527
Flexural modulus, 23°C	**13800 / -**	MPa	ISO 178
Flexural strength	**310 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**100 / 100**	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	**105 / -**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**20 / -**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**16 / -**	kJ/m²	ISO 179/1eA
Ball indentation hardness	**230 / -**	MPa	ISO 2039-1

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**220 / ***	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	**205 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	**170 / ***	°C	ISO 75-1/-2
Burning behav. at thickness h	**HB / ***	class	IEC 60695-11-10
Thickness tested	**0.8 / ***	mm	-

Other properties	dry / cond	Unit	Test Standard
Density	**1510 / -**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Melt temperature	**270**	°C	-
Mold temperature	**80**	°C	-
Injection pressure	**75**	MPa	-

Characteristics

Processing
Injection Molding

Delivery form
Black

Special Characteristics
Heat stabilized or stable to heat

Chemical Resistance
General Chemical Resistance

Certifications
Contains renewable resources

Applications
Automotive

Regional Availability
Europe, Asia Pacific