AKROMID® A3 1 S3 black (2768)

PA66/6 — Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**1.4 / ***	%	ISO 294-4, 2577
Molding shrinkage, normal	**1.6 / ***	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	**2600 / 1000**	MPa	ISO 527
Yield stress	**68 / 40**	MPa	ISO 527
Yield strain	**4.4 / -**	%	ISO 527
Flexural modulus, 23°C	**2100 / 1000**	MPa	ISO 178
Flexural strength	**81 / -**	MPa	ISO 178
Charpy impact strength, +23°C	**N / N**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**11 / 95**	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	**8 / -**	kJ/m²	ISO 179/1eA
Izod notched impact strength, +23°C	**11 / -**	kJ/m²	ISO 180/1A
Izod notched impact strength	**9 / -**	kJ/m²	ISO 180/1A
Temperature	**-30**	°C	-
Ball indentation hardness	**125 / 65**	MPa	ISO 2039-1

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	**60 / ***	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**194 / ***	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**83 / ***	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	**83 / ***	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	-

Other properties	dry / cond	Unit	Test Standard
Density	**1110 / -**	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

Applications
Automotive, Electrical and Electronical

Delivery form
Black

Regional Availability
Europe, Asia Pacific

Special Characteristics
High impact or impact modified, Heat stabilized or stable to heat