

AKROMID® A3 black (3706)

PA66

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	3000 / 1400	MPa	ISO 527
Yield stress	80 / 55	MPa	ISO 527
Yield strain	5 / -	%	ISO 527
Flexural modulus, 23°C	2800 / 1400	MPa	ISO 178
Flexural strength	110 / 50	MPa	ISO 178
Charpy impact strength, +23°C	N / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	7 / -	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	6.5 / -	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C	8 / -	kJ/m ²	ISO 180/1A
Izod notched impact strength	7 / -	kJ/m ²	ISO 180/1A
Temperature	-40	°C	-
Ball indentation hardness	144 / 87	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	65 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	209 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 8.00 MPa	47 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	-
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	-

Other properties	dry / cond	Unit	Test Standard
Density	1140 / -	kg/m ³	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

Special Characteristics

Heat stabilized or stable to heat

Delivery form

Black

Regional Availability

Europe, Asia Pacific