

AKROMID® A3 black (2415)

PA66

Akro-Plastic GmbH

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.9 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	2.3 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3200 / 1100	MPa	ISO 527
Yield stress	85 / 50	MPa	ISO 527
Yield strain	4.5 / 20	%	ISO 527
Flexural modulus, 23°C	2800 / -	MPa	ISO 178
Flexural strength	110 / -	MPa	ISO 178
Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	N / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	5 / 13	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	2 / -	kJ/m ²	ISO 179/1eA

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	75 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	215 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	71 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	110 / *	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	V-2 / *	class	IEC 60695-11-10
Glow Wire Flammability Index (GWFI)	1.6 / *	mm	-
GWFI - thickness tested (1)	750	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	1.6	mm	-
GWIT - thickness tested (1)	675	°C	IEC 60695-2-13
	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
Water absorption	9 / *	%	Sim. to ISO 62
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

Delivery form

Black

Applications

Automotive, Electrical and Electronical

Regional Availability

Europe, Asia Pacific