

ALTECH MBS A 1000/500

(Last update: 17.01.2025)

MOCOM

Base Polymer	Polystyrene Copolymers, other
Special Features	processing stabilised, elastomer modified, injection moulding grade
Typical Applications	various

Pre-Drying Conditions	65 °C in a dry air (dessiccant) dryer for 2-3 h
Processing Injection Moulding	melt temperature 190-230 °C mould temperature 10-60 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2050	MPa	ISO 178
Flexural Stress (3.5% Strain)	43	MPa	ISO 178
Tensile Modulus	2000	MPa	ISO 527
Tensile Stress at Yield	26	MPa	ISO 527
Tensile Elongation at Yield	2	%	ISO 527
Tensile Elongation at Break	45	%	ISO 527
Impact Strength (Charpy, 23°C)	35	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	20	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H132/30	60	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	70	°C	ISO 306
HDT / A (1,8 MPa)	71	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	55	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.4 - 0.8	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94
Flammability (3.0 mm)	HB	class	UL 94
Glow Wire (GWFI, 650 °C, 1.0mm)	passed	-	DIN EN 60695



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Glow Wire (GWFI, 650 °C, 2.0mm)

passed

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DIN EN 60695

Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

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