

Technical Data Sheet



ALTECH MBS A 1000/500

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
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695