

Technical Data Sheet



ALTECH MBS A 1000/506

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

Pre-Drying Conditions	65 °C in a dry air (dessiccant) dryer for 2-3 h max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 200-240 °C mould temperature 30-60 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress (3.5% Strain)	46	MPa	ISO 178
Tensile Modulus	2000	MPa	ISO 527
Tensile Stress at Yield	29	MPa	ISO 527
Tensile Elongation at Yield	1.9	%	ISO 527
Tensile Elongation at Break	50	%	ISO 527
Impact Strength (Charpy, 23°C)	50	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	18	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
Thermal Properties			
Vicat B50	73	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	60	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
Physical Properties			
Density	1050	kg/m ³	ISO 1183