

ALTECH PBT A 1000/106

(Last update: 03.06.2021)

MOCOM

Base Polymer	Polybutylene Terephthalate
Special Features	heat stabilised,easy release (demoulding),injection moulding grade
Market Segment	various
Application Area	injection moulded parts

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-120 °C for 2-4 h in an air circulating dryer 100-120 °C for 4-8 h dependant on moisture content max. moisture content <0,04 %
Processing Injection Moulding	melt temperature 250-270 °C mould temperature 40-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	80	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	58	MPa	ISO 527
Tensile Elongation at Yield	3.2	%	ISO 527
Tensile Elongation at Break	40	%	ISO 527
Impact Strength (Charpy, 23°C)	200	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	150	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	3	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	180	°C	ISO 306
HDT / A (1,8 MPa)	55	°C	ISO 75-1/-2
DSC (Melt Point)	225	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	15	cm³/10min	ISO 1133
MVR temperature	250	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.9 - 2.3	%	ISO 294-4
Shrinkage (lateral, 24h)	1.8 - 2.2	%	ISO 294-4



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Physical Properties

Density	1350	kg/m ³	ISO 1183
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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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