

Technical Data Sheet

**ALTECH PBT+ASA A 4212/507 MR/GF12**

Base Polymer	Polybutylene Terephthalate + Acrylonitrile Styrene Acrylate
Filler/Additive System	12 % glass fibre/mineral
Special Features	low warpage,easy flow,impact modified,heat stabilised
Application Area	interior decoration / finishing,clothing / fasteners
Typical Applications	various

Pre-Drying Conditions	in a dry air (dessiccant) dryer 90-115 °C for 2-4 h dependant on moisture content max. moisture content <0,04 %
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Processing Injection Moulding	melt temperature 250-280 °C mould temperature 60-100 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2900	MPa	ISO 178
Flexural Strength	85	MPa	ISO 178
Tensile Modulus	3100	MPa	ISO 527
Tensile Strength at Break	49	MPa	ISO 527
Tensile Elongation at Break	4	%	ISO 527
Impact Strength (Charpy, 23°C)	30	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)	3	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	123	°C	ISO 306
HDT / A (1,8 MPa)	95	°C	ISO 75-1/-2
DSC (Melt Point)	226	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	20	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.8 - 1.2	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 1.1	%	ISO 294-4
Physical Properties			
Density	1290	kg/m ³	ISO 1183