

Technical Data Sheet



ALTECH PBT A 5262/500 GF 30, MR32

Base Polymer	Polybutylene Terephthalate
Filler/Additive System	62 % glass fibre/mineral
Special Features	high density,heat stabilised,high acoustic damping
Market Segment	Automotive
Application Area	injection moulded parts
Typical Applications	housings,functional components

Pre-Drying Conditions	in a dry air (dessiccant) dryer <120 °C for 2-4 h dependant on moisture content
Processing Injection Moulding	melt temperature 270-290 °C mould temperature 80-120 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	12800	MPa	ISO 178
Flexural Strength	145	MPa	ISO 178
Tensile Modulus	14500	MPa	ISO 527
Tensile Strength at Break	100	MPa	ISO 527
Tensile Elongation at Break	1.2	%	ISO 527
Impact Strength (Charpy, 23°C)	28	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	25	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	6	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	213	°C	ISO 306
HDT / A (1,8 MPa)	207	°C	ISO 75-1/-2
DSC (Melt Point)	222	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	2	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	2120	kg/m ³	ISO 1183