

Technical Data Sheet

Altech NXT PP®



ALTECH NXT PP-H A 2030/450.02 GF30 CP

MOCOM

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	30 % glass fibres
Colour	black
Special Features	chemically coupled, high heat stabilised, high stiffness, high toughness, high heat stabilised
Market Segment	Automotive
Typical Applications	various, injection moulded parts

Pre-Drying Conditions	in a dry air (dessiccant) dryer 80-120 °C for 2-3 h in an air circulating dryer 80-120 °C for 2-4 h dependant on moisture content max. moisture content <0,10 %
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Processing Injection Moulding	melt temperature 200-250 °C mould temperature 20-70 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	6100	MPa	ISO 178
Flexural Strength	145	MPa	ISO 178
Tensile Modulus	7500	MPa	ISO 527
Tensile Strength at Break	100	MPa	ISO 527
Tensile Elongation at Break	3	%	ISO 527
Impact Strength (Charpy, 23°C)	50	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	50	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	140	°C	ISO 306
HDT / A (1,8 MPa)	155	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	6	cm³/10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.2 - 0.4	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1130	kg/m³	ISO 1183