

Technical Data Sheet

Altech NXT PP®



ALTECH NXT PP-H A 2030/456.02 GF30 CP

MOCOM

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	30 % glass fibres
Special Features	chemically coupled,high heat stabilised,high stiffness,high toughness
Market Segment	Automotive
Typical Applications	various,injection moulded parts
Approvals	DBL1224

Pre-Drying Conditions	in an air circulating dryer 80-120 °C for 2-4 h in a dry air (dessiccant) dryer 80-120 °C for 2-3 h dependant on moisture content
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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	5900	MPa	ISO 178
Flexural Strength	145	MPa	ISO 178
Tensile Modulus	7300	MPa	ISO 527
Tensile Strength at Break	97	MPa	ISO 527
Tensile Elongation at Break	3.1	%	ISO 527
Impact Strength (Charpy, 23°C)	55	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7.5	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	142	°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)	4	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
Spiral Flow (2 mm wall thickness)	75	cm	-
Physical Properties			
Density	1120	kg/m³	ISO 1183