

Technical Data Sheet

Altech NXT PP®



ALTECH NXT PP-H A 2330/456.02 GF20 GB10 CP

MOCOM

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % glass fibres, 10 % glass beads
Colour	black
Special Features	chemically coupled, high heat stabilised, high stiffness, low emission, heat stabilised
Market Segment	Automotive
Typical Applications	clothing / fasteners, functional components

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 max. moisture content <0,10 %
Processing Injection Moulding	melt temperature 200-250 °C mould temperature 20-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	4800	MPa	ISO 178
Flexural Strength	120	MPa	ISO 178
Tensile Modulus	5500	MPa	ISO 527
Tensile Strength at Break	77	MPa	ISO 527
Tensile Elongation at Break	3.2	%	ISO 527
Impact Strength (Charpy, 23°C)	45	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	40	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	6	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	139	°C	ISO 306
HDT / A (1,8 MPa)	153	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	5.5	cm³/10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4

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Physical Properties

Density	1130	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
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