Technical Data Sheet

Altech NXT PP®

MOCOM

ALTECH NXT PP-H A 2035/450.02 GF35 CP

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	35 % glass fibres
Colour	black,natural color
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 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	7300	MPa	ISO 178
Flexural Strength	160	MPa	ISO 178
Tensile Modulus	8500	MPa	ISO 527
Tensile Strength at Break	105	MPa	ISO 527
Tensile Elongation at Break	3.1	%	ISO 527
Impact Strength (Charpy, 23°C)	56	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)	8.5	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	145	°C	ISO 306
HDT / A (1,8 MPa)	160	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	3.5	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)	70	cm	-

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Physical Properties			
Density	1170	kg/m³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94

Diagrams

Stress-Strain