Technical Data Sheet

Altech NXT PP®

ALTECH NXT PP-H A 2035/752.02 GF35 CP UV

M⁘COM

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	35 % glass fibres
Colour	black
Special Features	chemically coupled,high heat stabilised,high stiffness,high toughness,UV stabilised,heat stabilised
Market Segment	Automotive
Typical Applications	various,injection moulded parts
Approvals	PV3929,PV3930

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	7100	MPa	ISO 178
Flexural Strength	155	MPa	ISO 178
Tensile Modulus	8500	MPa	ISO 527
Tensile Strength at Break	100	MPa	ISO 527
Tensile Elongation at Break	3	%	ISO 527
Impact Strength (Charpy, 23°C)	55	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)	7.5	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	142	°C	ISO 306
HDT / A (1,8 MPa)	158	°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

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Spiral Flow (2 mm wall thickness)	65	cm	-
Physical Properties			
Density	1180	kg/m³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94