

Technical Data Sheet



ALTECH PP-H A 4940/106 MR40

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	40 % talcum
Colour	black
Special Features	high heat stabilised, processing stabilised, easy release (demoulding)
Market Segment	Automotive, building and construction
Application Area	injection moulded parts, interior decoration / finishing, exterior parts
Typical Applications	different automotive powertrain parts, housings, functional components

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	4000	MPa	ISO 178
Flexural Stress (3.5% Strain)	50	MPa	ISO 178
Tensile Modulus	4000	MPa	ISO 527
Tensile Stress at Yield	31	MPa	ISO 527
Tensile Elongation at Yield	3.3	%	ISO 527
Tensile Elongation at Break	7.3	%	ISO 527
Impact Strength (Charpy, 23°C)	27	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	10	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	89	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	3	cm³/10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.1 - 1.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.7 - 0.9	%	ISO 294-4
Physical Properties			
Density	1230	kg/m³	ISO 1183