Technical Data Sheet

Altech®

MOCOM

ALTECH PP-H A 2040/556 GF40 CP

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	40 % glass fibres
Colour	black
Special Features	heat stabilised,processing stabilised,injection moulding grade,low emission,chemically coupled
Market Segment	Automotive
Typical Applications	profile,bezels
Approvals	VW50180*,MS-DB500

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 %
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	7800	MPa	ISO 178
Flexural Strength	135	MPa	ISO 178
Tensile Modulus	8500	MPa	ISO 527
Tensile Strength at Break	90	MPa	ISO 527
Tensile Elongation at Break	2.5	%	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)	9	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	140	°C	ISO 306
HDT / A (1,8 MPa)	150	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	4.5	cm³/10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4
Physical Properties			
Density	1220	kg/m³	ISO 1183