

Technical Data Sheet



ALCOM MS PA66+6I/X 2050 18007

Base Polymer	Partially aromatic polyamide
Filler/Additive System	50 % glass fibres
Special Features	high stiffness,heat stabilised,UV stabilised,high surface quality
Market Segment	Automotive,Machinery
Application Area	injection moulded parts
Typical Applications	interior decoration / finishing,functional components,housings

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,10 %
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Processing Injection Moulding	melt temperature 280-300 °C mould temperature 80-120 °C
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Storage	dry, protected from light
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Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	15500 / 13500	MPa	ISO 178
Flexural Strength	375 / 300	MPa	ISO 178
Tensile Modulus	17000 / 14000	MPa	ISO 527
Tensile Strength	250 / -	MPa	ISO 527
Tensile Strength at Break	- / 195	MPa	ISO 527
Tensile Elongation at Break	2.8 / 3.3	%	ISO 527
Impact Strength (Charpy, 23°C)	105 / 95	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	95 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	15 / 15	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	14 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	248 / *	°C	ISO 75-1/-2
DSC (Melt Point)	258 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.2 - 0.4	%	ISO 294-4
Physical Properties			
Density	1590 / -	kg/m ³	ISO 1183