

Technical Data Sheet



ALCOM MS PA66+6I/X 2040 FR

Base Polymer	Partially aromatic polyamide
Filler/Additive System	40 % glass fibres
Special Features	heat stabilised,easy release (demoulding),low warpage,halogen-free flame retardant,high surface quality
Market Segment	electrical and electronic,Automotive
Application Area	housings,injection moulded parts
Typical Applications	various

Pre-Drying Conditions 80 °C in a dry air (dessiccant) dryer
for 2-12 h
max. moisture content <0,10 %

Processing Injection Moulding melt temperature 280-300 °C
mould temperature 80-120 °C

Storage dry, protected from light

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	14500 / 12900	MPa	ISO 178
Flexural Strength	240 / 200	MPa	ISO 178
Tensile Modulus	15200 / 14300	MPa	ISO 527
Tensile Strength at Break	160 / 140	MPa	ISO 527
Tensile Elongation at Break	1.7 / 1.9	%	ISO 527
Impact Strength (Charpy, 23°C)	40 / 35	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	35 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8 / 8	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	247 / *	°C	ISO 75-1/-2
DSC (Melt Point)	256 / *	°C	ISO 11357
Electrical Properties			
Tracking Resistance (CTI)	600 / -	-	IEC 60112
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1580 / -	kg/m ³	ISO 1183

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Flammability

Flammability (0.75 mm)

Flammability (1.5 mm)

Glow Wire (GWFI, 960°C, 1.0mm)

Glow Wire (GWIT, 725°C, 1.0mm)

V-0 / *

V-0 / *

passed

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class

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