

**ALCOM MS PA66+6I/X 2040 FR**

(Last update: 12.04.2024)

**MOCOM**

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
<b>Mechanical Properties</b>			
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 <sup>2</sup>	ISO 179/1eU
Impact Strength (Charpy, -40°C)	35 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8 / 8	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	8 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal Properties</b>			
HDT / A (1,8 MPa)	247 / *	°C	ISO 75-1/-2
DSC (Melt Point)	256 / *	°C	ISO 11357
<b>Electrical Properties</b>			
Tracking Resistance (CTI)	600 / -	-	IEC 60112
<b>Rheological Properties</b>			
Shrinkage (lengthwise, 24h)	0.1 - 0.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
<b>Physical Properties</b>			
Density	1580 / -	kg/m <sup>3</sup>	ISO 1183



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### Flammability

Flammability (0.75 mm)	V-0 / *	class	UL 94
Flammability (1.5 mm)	V-0 / *	class	UL 94
Glow Wire (GWFI, 960 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWIT, 725 °C, 1.0mm)	passed	-	DIN EN 60695

### Liability Exclusion

These are guide values and not a specification. The test values mentioned are representative values only and not binding minimum or maximum figures. These test values have been determined on standardised test specimens and can be affected by pigmentation, mould design and processing conditions.

Any information given on the chemical and physical characteristics of our products, including, without limitation, technical advice on applications, whether verbally, in writing or by testing the product, is given to the best of our knowledge and in good faith and does not exempt the buyer from carrying out their own investigations and tests in order to ascertain the product's specific suitability for the purpose intended.

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- any bodily implant application for greater than 30 days
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