

ALTECH PA6 FC 5040/500 MR40

(Last update: 06.11.2020)

MOCOM

Base Polymer	Polyamide 6
Filler/Additive System	40 % metal filler
Colour	natural color
Special Features	thermal conductive,easy release (demoulding),processing stabilised
Market Segment	Machinery,packaging,food processing industry
Application Area	injection moulded parts,food contact
Typical Applications	racking / shelving,fixing elements,housings

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-12 h dependant on moisture content max. moisture content <0,15 %
Processing Injection Moulding	melt temperature 290-310 °C mould temperature 100-120 °C
Storage	dry, protected from light
Minimum Shelf Life	months <12

Properties	dry/cond.	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	4200 / 1300	MPa	ISO 178
Flexural Strength	95 / 32	MPa	ISO 178
Tensile Modulus	4300 / 1200	MPa	ISO 527
Tensile Strength at Break	64 / 30	MPa	ISO 527
Tensile Elongation at Break	2.8 / 95	%	ISO 527
Impact Strength (Charpy, 23°C)	50 / 85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	50 / -	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	4 / 10	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4 / -	kJ/m ²	ISO 179/1eA
Thermal Properties			
HDT / A (1,8 MPa)	83 / *	°C	ISO 75-1/-2
DSC (Melt Point)	220 / *	°C	ISO 11357
Rheological Properties			
Shrinkage (lengthwise, 24h)	0.9 - 1.3	%	ISO 294-4
Shrinkage (lateral, 24h)	0.8 - 1.2	%	ISO 294-4
Physical Properties			
Density	1460 / -	kg/m ³	ISO 1183



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Additional Information

Different color matches of this material can have significant influence on the suitability according to the various food contact directives (e.g. FDA or EU). Please request a compliance confirmation per colorcode regarding the suitability for the specific food contact application.

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.

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