

ALTECH PP-H A 4920/109 TV20

(Last update: 19.02.2024)

MOCOM

Base Polymer	Polypropylene Homopolymer
Filler/Additive System	20 % talcum
Colour	black,grey,natural color,red,white
Special Features	high heat stabilised,high stiffness,UL-Listing,processing stabilised,easy release (demoulding)
Market Segment	electrical and electronic,Automotive
Application Area	electrical components,interior decoration / finishing,exterior parts
Typical Applications	housings,functional components,different automotive powertrain parts,radiator grilles,fans

Pre-Drying Conditions	in an air circulating dryer 80-120 °C for 2-4 h in a dry air (dessiccant) dryer 80-120 °C for 2-3 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	2800	MPa	ISO 178
Flexural Stress (3.5% Strain)	48	MPa	ISO 178
Tensile Modulus	2800	MPa	ISO 527
Tensile Stress at Yield	35	MPa	ISO 527
Tensile Elongation at Yield	5.4	%	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23 °C)	70	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40 °C)	15	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23 °C)	4.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40 °C)	1.5	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	75	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	4	cm³/10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-



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Shrinkage (lengthwise, 24h)	1.5 - 1.9	%	ISO 294-4
Shrinkage (lateral, 24h)	0.9 - 1.1	%	ISO 294-4

Physical Properties

Density	1060	kg/m³	ISO 1183
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-

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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