

Technical Data Sheet



ALTECH ABS A 1000/139 AS

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	antistatic - short term
Colour	blue,grey,white
Special Features	UL-Listing,heat stabilised,processing stabilised
Market Segment	electrical and electronic,building and construction
Application Area	injection moulded parts,housings,functional components

Pre-Drying Conditions	80 °C in a dry air (dessiccant) dryer for 2-4 h 80 °C in an air circulating dryer for 3-6 h dependant on moisture content max. moisture content <0,20 %
Processing Injection Moulding	melt temperature 200-240 °C mould temperature 50-80 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2550	MPa	ISO 178
Flexural Stress (3.5% Strain)	65	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	44	MPa	ISO 527
Tensile Elongation at Yield	2.1	%	ISO 527
Tensile Elongation at Break	30	%	ISO 527
Impact Strength (Charpy, 23°C)	85	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	70	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	95	°C	ISO 306
HDT / A (1,8 MPa)	85	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	38	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.4 - 0.7	%	ISO 294-4
Physical Properties			
Density	1050	kg/m ³	ISO 1183

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(Last update: 23.08.2022)

Flammability

Flammability (1.5 mm)

Yellow Card available

Glow Wire (GWFI, 650°C, 1.0mm)

Glow Wire (GWFI, 650°C, 2.0mm)

HB

yes

passed

passed

class

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UL 94

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DIN EN 60695

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