

Technical Data Sheet



ALTECH ABS A 1000/729 UV

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Filler/Additive System	light stabiliser
Colour	black, grey, orange
Special Features	high surface quality, injection moulding grade, UV stabilised, heat stabilised, processing stabilised
Market Segment	electrical and electronic
Application Area	injection moulded parts, electrical and electronic (E&E), power tools
Typical Applications	housings, handles

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
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Processing Injection Moulding	melt temperature 200-240 °C mould temperature 50-80 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2300	MPa	ISO 178
Flexural Stress (3.5% Strain)	63	MPa	ISO 178
Tensile Modulus	2200	MPa	ISO 527
Tensile Stress at Yield	42	MPa	ISO 527
Tensile Elongation at Yield	2.3	%	ISO 527
Tensile Elongation at Break	20	%	ISO 527
Impact Strength (Charpy, 23°C)	125	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	85	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	18	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	96	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	94	°C	ISO 306
HDT / A (1,8 MPa)	83	°C	ISO 75-1/-2
Ball Indentation Temperature	75	°C	DIN EN 60695-10-2
Rheological Properties			
Melt Index (MVR)	20	cm ³ /10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4

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(Last update: 09.02.2024)

Physical Properties

Density	1040	kg/m ³	ISO 1183
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Flammability

Flammability (1.5 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Flammability (3.0 mm)	HB	class	UL 94
Yellow Card available	yes	-	-
Glow Wire (GWFI, 650 °C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650 °C, 2.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 650 °C, 3.0mm)	passed	-	DIN EN 60695