

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/m³	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