Technical Data Sheet

ALTECH ABS A 1000/160 BK2448-12LS

(Last update: 07.12.2023)

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Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Colour	black
Special Features	laser etchable (light etching),easy flow,processing stabilised,injection moulding grade
Market Segment	electrical and electronic,various
Application Area	electrical and electronic (E&E),electrical components
Typical Applications	domestic appliances,injection moulded parts,functional components,housings

Pre-Drying Conditions	80 °C in an air circulating dryer for 3-6 h 80 °C in a dry air (dessiccant) dryer for 2-4 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	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	70	MPa	ISO 178
Tensile Modulus	2600	MPa	ISO 527
Tensile Stress at Yield	47	MPa	ISO 527
Tensile Elongation at Yield	2.3	%	ISO 527
Tensile Elongation at Break	30	%	ISO 527
Impact Strength (Charpy, 23°C)	85	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	70	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	13	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5.5	kJ/m²	ISO 179/1eA
Ball Indentation Hardness H358/30	106	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	100	°C	ISO 306
HDT / A (1,8 MPa)	87	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	17	cm³/10min	ISO 1133
MVR temperature	220	°C	-
MVR load	10	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4

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Physical Properties			
Density	1050	kg/m³	ISO 1183
Flammability			
Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695

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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