

Technical Data Sheet



ALTECH ABS A 1000/160 BK2448-12LS

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 (desiccant) 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/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	70	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	13	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	5.5	kJ/m ²	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	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: 07.12.2023)

Physical Properties

Density	1050	kg/m ³	ISO 1183
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Flammability

Glow Wire (GWFI, 650°C, 2.0mm)	passed	-	DIN EN 60695
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