Technical Data Sheet

Altech®

ALBIS

ALTECH ABS A 1000/660

(Last update: 17.08.2023)

M COM

Base Polymer	Acrylonitrile/Butadiene/Styrene/Copolymer
Special Features	injection moulding grade,also suitable for extrusion,easy release (demoulding),heat stabilised
Market Segment	Automotive,Medical / Personal Care,various
Typical Applications	kitchenware,dashboard / instrument panels,impact protection / shock absorber

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	1950	MPa	ISO 178
Flexural Stress (3.5% Strain)	55	MPa	ISO 178
Tensile Modulus	1800	MPa	ISO 527
Tensile Stress at Yield	36	MPa	ISO 527
Tensile Elongation at Yield	3	%	ISO 527
Tensile Elongation at Break	7.5	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	155	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	33	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	11	kJ/m²	ISO 179/1eA
Ball Indentation Hardness H358/30	73	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	95	°C	ISO 306
HDT / A (1,8 MPa)	78	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	6	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	1040	kg/m³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94

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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- any bodily implant application for greater than 30 days
- any critical component in any medical device that supports or sustains human life.

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