Technical Data Sheet

Altech®

MOCOM

ALTECH ABS A 1000/660

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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(Last update: 17.08.2023)

Physical Properties			
Density	1040	kg/m³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94