

Technical Data Sheet



ALTECH PC+ABS ECO 1000/500

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Special Features	contains recycled material
Market Segment	Automotive,electrical and electronic,various
Application Area	injection moulded parts,radiator systems,interior,ducting / piping systems,various
Typical Applications	housings,housing and automotive trim unpainted,sockets,plugs / connectors,light switches,various

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-110 °C for 2-4 h in an air circulating dryer 100-110 °C for 4-8 h dependant on moisture content
Processing Injection Moulding	melt temperature 240-280 °C mould temperature 70-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2500	MPa	ISO 178
Flexural Stress (3.5% Strain)	73	MPa	ISO 178
Tensile Modulus	2200	MPa	ISO 527
Tensile Stress at Yield	54	MPa	ISO 527
Tensile Elongation at Yield	4.6	%	ISO 527
Tensile Elongation at Break	20	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	45	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	128	°C	ISO 306
Electrical Properties			
Surface Resistance	2E13	Ohm	DIN EN 62631-3-2
Dielectric Strength	37	kV/mm	IEC 60243-1
Rheological Properties			
Melt Index (MVR)	24	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4

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Physical Properties

Density	1140	kg/m ³	ISO 1183
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Ecological Properties

Global Warming Potential (GWP)	1.16	kg CO ₂ eq./kg	ISO 14040, 14044
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Flammability

Glow Wire (GWIT, 725°C, 2.0mm)	passed	-	DIN EN 60695
Glow Wire (GWIT, 775°C, 1.0mm)	passed	-	DIN EN 60695

Diagrams

Stress-Strain

