

Technical Data Sheet



ALTECH PC+ABS ECO 1000/520 UV

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Special Features	contains recycled material,UV stabilised
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 3-6 h dependant on moisture content
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Processing Injection Moulding	melt temperature 240-280 °C mould temperature 70-100 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress (3.5% Strain)	68	MPa	ISO 178
Tensile Modulus	2100	MPa	ISO 527
Tensile Stress at Yield	50	MPa	ISO 527
Tensile Elongation at Yield	4.5	%	ISO 527
Tensile Elongation at Break	45	%	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
Ball Indentation Hardness H358/30	110	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	123	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	14	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1150	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	1.13	kg CO ₂ eq./kg	ISO 14040, 14044