

Technical Data Sheet

Altech[®] ECO

MOCOM

ALTECH PC+ABS ECO 1000/720 UV

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Special Features	injection moulding grade,contains recycled material,UV stabilised,easy release (demoulding)
Market Segment	electrical and electronic
Application Area	injection moulded parts
Typical Applications	thin walled parts,housings

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 max. moisture content <0,02 %
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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	2600	MPa	ISO 178
Flexural Stress (3.5% Strain)	80	MPa	ISO 178
Tensile Modulus	2400	MPa	ISO 527
Tensile Stress at Yield	59	MPa	ISO 527
Tensile Elongation at Yield	4.7	%	ISO 527
Tensile Elongation at Break	15	%	ISO 527
Impact Strength (Charpy, 23°C)	250	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	40	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	124	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	35	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (lengthwise, 24h)	0.6 - 0.8	%	ISO 294-4
Shrinkage (lateral, 24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1150	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	1.12	kg CO ₂ eq./kg	ISO 14040, 14044