

Technical Data Sheet



ALTECH PC ECO 1000/578

Base Polymer	Polycarbonate
Special Features	easy release (demoulding)
Market Segment	electrical and electronic, Automotive, various
Application Area	domestic appliances, electrical components
Typical Applications	housing and automotive trim unpainted, housings, various

Pre-Drying Conditions	in an air circulating dryer 100-120 °C for 4-12 h 120 °C in a dry air (dessiccant) dryer for 2-3 h dependant on moisture content max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 270-310 °C mould temperature 80-110 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	75	MPa	ISO 178
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	66	MPa	ISO 527
Tensile Elongation at Yield	6.2	%	ISO 527
Tensile Elongation at Break	70	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	13	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	145	°C	ISO 306
HDT / A (1,8 MPa)	125	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	6.5	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.5 - 0.8	%	ISO 294-4
Physical Properties			
Density	1200	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	0.35	kg CO ₂ eq./kg	ISO 14040, 14044