

Technical Data Sheet



ALTECH PC ECO 1000/141 FR IM

Base Polymer	Polycarbonate
Special Features	UV stabilised,easy release (demoulding),flame retardant,impact modified
Market Segment	electrical and electronic,Lighting,various
Application Area	injection moulded parts,consumer electronics,various
Typical Applications	housings,security engineering parts,sockets,plugs / connectors,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			
Tensile Modulus	2500	MPa	ISO 527
Tensile Stress at Yield	60	MPa	ISO 527
Tensile Elongation at Yield	5.8	%	ISO 527
Tensile Elongation at Break	80	%	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	140	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	18	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)	0.5	kg CO ₂ eq./kg	ISO 14040, 14044
Flammability			
Flammability (1.5 mm)	V-2	class	UL 94
Glow Wire (GWFI, 960 °C, 2.0mm)	passed	-	DIN EN 60695