

Technical Data Sheet



ALTECH PC ECO 1000/141 FR IM

MOCOM

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