

Technical Data Sheet



ALTECH PC ECO 1000/521 IM UV

Base Polymer	Polycarbonate
Special Features	UV stabilised,easy release (demoulding),impact modified
Market Segment	electrical and electronic,Lighting,various
Application Area	exterior,fixtures / fittings,various
Typical Applications	garden equipment,housings,various

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-4 h in an air circulating dryer 100-120 °C for 4-12 h dependant on moisture content max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 270-310 °C mould temperature 80-110 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Modulus	2200	MPa	ISO 527
Tensile Stress at Yield	62	MPa	ISO 527
Tensile Elongation at Yield	5.7	%	ISO 527
Tensile Elongation at Break	96	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	75	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	141	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	8	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	1230	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	0.5	kg CO ₂ eq./kg	ISO 14040, 14044
Flammability			
Glow Wire (GWFI, 850 °C, 2.0mm)	passed	-	DIN EN 60695