

Technical Data Sheet



ALTECH PC ECO 1000/542 FR UV

Base Polymer	Polycarbonate
Special Features	UV stabilised,easy release (demoulding),flame retardant,contains recycled material
Market Segment	electrical and electronic,various
Application Area	electrical components,energy management,exterior parts,various
Typical Applications	housings,plugs / connectors,functional components,various

Pre-Drying Conditions	120 °C in a dry air (dessiccant) dryer for 2-3 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	2400	MPa	ISO 527
Tensile Stress at Yield	60	MPa	ISO 527
Tensile Elongation at Yield	6	%	ISO 527
Tensile Elongation at Break	60	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	12	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat B50	142	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	15	cm³/10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.6 - 0.8	%	ISO 294-4
Physical Properties			
Density	1200	kg/m³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	0.47	kg CO₂ eq./kg	ISO 14040, 14044

Technical Data Sheet

Altech[®] ECO

MOCOM

ALTECH PC ECO 1000/542 FR UV

Flammability

Flammability (1.5 mm)

V-0

class

UL 94

Flammability 5VA (3.0 mm)

class

IEC 60695-11-20

Glow Wire (GWFI, 960°C, 2.0mm)

passed

-

DIN EN 60695