

Technical Data Sheet



ALTECH PC A 1000/227 UV

Base Polymer	Polycarbonate
Filler/Additive System	light stabiliser
Colour	red
Special Features	UV stabilised, heat stabilised, processing stabilised, easy release (demoulding)
Typical Applications	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			
Flexural Modulus	2400	MPa	ISO 178
Flexural Stress (3.5% Strain)	75	MPa	ISO 178
Tensile Modulus	2300	MPa	ISO 527
Tensile Stress at Yield	65	MPa	ISO 527
Tensile Elongation at Yield	6	%	ISO 527
Tensile Elongation at Break	95	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	no break	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	9.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	141	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	24	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (24h)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1190	kg/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94