

Technical Data Sheet



ALTECH PC ECO 2010/121 GF10 IM UV

Base Polymer	Polycarbonate
Filler/Additive System	10 % glass fibres, impact modified
Special Features	UV stabilised, easy release (demoulding), contains recycled material
Market Segment	Automotive, various
Application Area	exterior parts, various
Typical Applications	housings, racking / shelving, various
Approvals	GMW15702

Pre-Drying Conditions	in an air circulating dryer 100-120 °C for 4-12 h in a dry air (dessiccant) dryer 100-120 °C for 2-3 h dependant on moisture content max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 280-330 °C mould temperature 80-130 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Modulus	3900	MPa	ISO 527
Tensile Strength at Break	68	MPa	ISO 527
Tensile Elongation at Break	5.1	%	ISO 527
Impact Strength (Charpy, 23°C)	60	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	8	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	145	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	9	cm ³ /10min	ISO 1133
MVR temperature	300	°C	-
MVR load	1.2	kg	-
Shrinkage (lengthwise, 24h)	0.3 - 0.5	%	ISO 294-4
Shrinkage (lateral, 24h)	0.3 - 0.5	%	ISO 294-4
Physical Properties			
Density	1270	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	0.56	kg CO ₂ eq./kg	ISO 14040, 14044
Flammability			
Glow Wire (GWFI, 850°C, 2.0mm)	passed	-	DIN EN 60695