

Technical Data Sheet



ALTECH PC ECO 2015/509 GF15

MOCOM

Base Polymer	Polycarbonate
Filler/Additive System	15 % glass fibres
Special Features	easy release (demoulding)
Market Segment	electrical and electronic, building and construction
Application Area	domestic appliances, electrical components
Typical Applications	various

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-120 °C for 2-3 h in an air circulating dryer 100-120 °C for 2-12 h dependant on moisture content max. moisture content <0,02 %
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Processing Injection Moulding	melt temperature 280-300 °C mould temperature 80-100 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Modulus	5400	MPa	ISO 527
Tensile Strength at Break	90	MPa	ISO 527
Tensile Elongation at Break	3.5	%	ISO 527
Impact Strength (Charpy, 23°C)	40	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	141	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	4.5	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)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1300	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	0.55	kg CO ₂ eq./kg	ISO 14040, 14044
Flammability			
Flammability (3.0 mm)	V-1	class	UL 94
Yellow Card available	yes	-	-