Technical Data Sheet

Altech®

MOCOM

ALTECH PP-B A 1000/549 FR

Base Polymer	Polypropylene Copolymer
Special Features	halogen-free flame retardant,processing stabilised,easy release (demoulding)
Market Segment	electrical and electronic,Lighting
Application Area	fixtures / fittings,electrical components
Typical Applications	housings,functional components,bezels

Pre-Drying Conditions	in a dry air (dessiccant) dryer 80-120 °C for 2-3 h in an air circulating dryer 80-120 °C for 2-4 h dependant on moisture content
Processing Injection Moulding	melt temperature 200-240 °C mould temperature 20-70 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	1700	MPa	ISO 178
Flexural Stress (3.5% Strain)	31	MPa	ISO 178
Tensile Modulus	1700	MPa	ISO 527
Tensile Stress at Yield	18	MPa	ISO 527
Tensile Elongation at Yield	2.6	%	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23°C)	40	kJ/m²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	12	kJ/m²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	2.5	kJ/m²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m²	ISO 179/1eA
Thermal Properties			
Vicat A50	149	°C	ISO 306
HDT / A (1,8 MPa)	63	°C	ISO 75-1/-2
DSC (Melt Point)	163	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	10	cm³/10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.4 - 1.8	%	ISO 294-4
Shrinkage (lateral, 24h)	1.1 - 1.5	%	ISO 294-4

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Physical Properties			
Density	1020	kg/m³	ISO 1183
Flammability			
Flammability (1.5 mm)	V-0	class	UL 94
Glow Wire (GWFI, 850°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 850°C, 2.0mm)	passed	-	DIN EN 60695