

Technical Data Sheet



ALCOM MS ECO PC+ABS 2010 SL

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Filler/Additive System	10 % glass fibres
Special Features	injection moulding grade,antisqueak-modified,contains recycled material,easy release (demoulding)
Market Segment	Automotive
Application Area	interior decoration / finishing
Typical Applications	clothing / fasteners,housings

Pre-Drying Conditions	in a dry air (dessiccant) dryer 100-110 °C for 2-4 h in an air circulating dryer 100-110 °C for 3-6 h max. moisture content <0,02 %
Processing Injection Moulding	melt temperature 240-280 °C mould temperature 70-100 °C
Storage	dry, protected from light

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	3300	MPa	ISO 178
Flexural Stress (3.5% Strain)	67	MPa	ISO 178
Tensile Modulus	3600	MPa	ISO 527
Tensile Stress at Yield	45	MPa	ISO 527
Tensile Elongation at Yield	3	%	ISO 527
Tensile Elongation at Break	10	%	ISO 527
Impact Strength (Charpy, 23°C)	80	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	50	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	17	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	7	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	93	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	112	°C	ISO 306
HDT / A (1,8 MPa)	105	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	15	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (lengthwise, 24h)	0.4 - 0.6	%	ISO 294-4
Shrinkage (lateral, 24h)	0.4 - 0.6	%	ISO 294-4

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Physical Properties

Density	1180	kg/m ³	ISO 1183
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Ecological Properties

Global Warming Potential (GWP)	1.41	kg CO ₂ eq./kg	ISO 14040, 14044
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