

Technical Data Sheet



ALCOM MS ECO PC+ABS R 1000 SL SB1021-21

Base Polymer	Polycarbonate +Acrylonitrile Butadiene Styrene Blend
Special Features	injection moulding grade,antisqueak-modified,contains recycled material,easy release (demoulding)
Market Segment	Automotive
Application Area	interior decoration / finishing
Typical Applications	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
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Processing Injection Moulding	melt temperature 240-280 °C mould temperature 70-100 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2200	MPa	ISO 178
Flexural Stress (3.5% Strain)	65	MPa	ISO 178
Tensile Modulus	2000	MPa	ISO 527
Tensile Stress at Yield	45	MPa	ISO 527
Tensile Elongation at Yield	3.3	%	ISO 527
Tensile Elongation at Break	40	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	240	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	50	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	10	kJ/m ²	ISO 179/1eA
Ball Indentation Hardness H358/30	90	MPa	ISO 2039-1
Thermal Properties			
Vicat B50	108	°C	ISO 306
HDT / A (1,8 MPa)	98	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	20	cm ³ /10min	ISO 1133
MVR temperature	260	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.6 - 0.9	%	ISO 294-4
Physical Properties			
Density	1120	kg/m ³	ISO 1183
Ecological Properties			
Global Warming Potential (GWP)	1.37	kg CO ₂ eq./kg	ISO 14040, 14044