

Technical Data Sheet



ALCOM MS PP 1000 IM GY1153-20

Base Polymer	Polypropylene Homopolymer
Special Features	impact modified, scratch resistant, UV stabilised
Typical Applications	electrical and electronic, clothing / fasteners

Processing Injection Moulding	melt temperature 200-270 °C mould temperature 20-90 °C
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Storage	dry, protected from light
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Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	950	MPa	ISO 178
Flexural Stress (3.5% Strain)	23	MPa	ISO 178
Tensile Modulus	1000	MPa	ISO 527
Tensile Stress at Yield	23	MPa	ISO 527
Tensile Elongation at Yield	9.7	%	ISO 527
Impact Strength (Charpy, 23°C)	no break	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	55	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	45	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	2.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	63	°C	ISO 306
HDT / A (1,8 MPa)	52	°C	ISO 75-1/-2
DSC (Melt Point)	166	°C	ISO 11357
Rheological Properties			
Melt Index (MVR)	28	cm ³ /10min	ISO 1133
MVR temperature	230	°C	-
MVR load	2.16	kg	-
Shrinkage (lengthwise, 24h)	1.8 - 2.2	%	ISO 294-4
Shrinkage (lateral, 24h)	1.5 - 1.9	%	ISO 294-4
Physical Properties			
Density	910	kg/m ³	ISO 1183