

Technical Data Sheet



ALCOM MED PS 2015 05001

Base Polymer	Polystyrene, impact
Filler/Additive System	15 % glass fibres
Typical Applications	housings

Pre-Drying Conditions	in an air circulating dryer 60-80 °C for 2-3 h in a dry air (dessiccant) dryer 60-80 °C for 2-3 h dependant on moisture content
Processing Injection Moulding	melt temperature 180-260 °C mould temperature 10-70 °C
Storage	dry, protected from light
Minimum Shelf Life	months <12

Properties	Value	Dimension	Based on Test Norm
Mechanical Properties			
Flexural Modulus	4600	MPa	ISO 178
Flexural Strength	52	MPa	ISO 178
Tensile Modulus	4300	MPa	ISO 527
Tensile Stress at Yield	25	MPa	ISO 527
Tensile Elongation at Yield	0.9	%	ISO 527
Tensile Elongation at Break	6.7	%	ISO 527
Impact Strength (Charpy, 23°C)	13	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	12	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	3.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	89	°C	ISO 306
HDT / A (1,8 MPa)	83	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	6	cm ³ /10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.1 - 0.5	%	ISO 294-4
Physical Properties			
Density	1210	kg/m ³	ISO 1183