

Technical Data Sheet



ALTECH PS FC 1000/507

Base Polymer	Polystyrene, impact
Colour	white
Market Segment	packaging
Application Area	food contact
Typical Applications	various

Pre-Drying Conditions	in a dry air (dessiccant) dryer 60-75 °C for 2-3 h in an air circulating dryer 60-75 °C for 2-3 h
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	Test Norm
Mechanical Properties			
Flexural Modulus	2000	MPa	ISO 178
Flexural Stress (3.5% Strain)	39	MPa	ISO 178
Tensile Modulus	1900	MPa	ISO 527
Tensile Stress at Yield	25	MPa	ISO 527
Tensile Elongation at Yield	1.5	%	ISO 527
Tensile Elongation at Break	25	%	ISO 527
Impact Strength (Charpy, 23°C)	70	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	60	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	9.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	4	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	88	°C	ISO 306
Rheological Properties			
Melt Index (MVR)	9	cm ³ /10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.4 - 0.7	%	ISO 294-4
Physical Properties			
Density	1040	kg/m ³	ISO 1183