

Technical Data Sheet



ALTECH PS A 1000/240 FR

Base Polymer	Polystyrene, impact
Filler/Additive System	flame retardant
Special Features	high impact modified
Market Segment	various
Application Area	various
Typical Applications	various

Pre-Drying Conditions in an air circulating dryer 60-80 °C
for 2-4 h

Processing Injection Moulding melt temperature 180-280 °C
mould temperature 10-70 °C

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Flexural Modulus	2100	MPa	ISO 178
Flexural Stress (3.5% Strain)	37	MPa	ISO 178
Tensile Modulus	2100	MPa	ISO 527
Tensile Stress at Yield	25	MPa	ISO 527
Tensile Elongation at Yield	1.4	%	ISO 527
Impact Strength (Charpy, 23°C)	100	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	10	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)	4.5	cm ³ /10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (24h)	0.3 - 0.7	%	ISO 294-4
Physical Properties			
Density	1110	kg/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	V-2	class	UL 94
Glow Wire (GWFI, 960°C, 1.0mm)	passed	-	DIN EN 60695
Glow Wire (GWFI, 960°C, 2.0mm)	passed	-	DIN EN 60695