

Technical Data Sheet

**ALTECH PS A 1000/902.01 GY1229-20**

Base Polymer	Polystyrene
Special Features	injection moulding grade, extrusion grade
Market Segment	electrical and electronic, building and construction, sport and leisure
Typical Applications	bezels, housings, profile

Pre-Drying Conditions	in a dry air (dessiccant) dryer 60-80 °C for 2-3 h in an air circulating dryer 60-80 °C for 2-3 h dependant on moisture content
-----------------------	---

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

Storage	dry, protected from light
---------	---------------------------

Properties	Value	Dimension	Test Norm
Mechanical Properties			
Tensile Modulus	3300	MPa	ISO 527
Tensile Strength at Break	53	MPa	ISO 527
Tensile Elongation at Break	2.3	%	ISO 527
Impact Strength (Charpy, 23°C)	18	kJ/m ²	ISO 179/1eU
Impact Strength (Charpy, -40°C)	12	kJ/m ²	ISO 179/1eU
Notched Impact Strength (Charpy, 23°C)	1.5	kJ/m ²	ISO 179/1eA
Notched Impact Strength (Charpy, -40°C)	1.5	kJ/m ²	ISO 179/1eA
Thermal Properties			
Vicat B50	101	°C	ISO 306
HDT / A (1,8 MPa)	87	°C	ISO 75-1/-2
Rheological Properties			
Melt Index (MVR)	3	cm ³ /10min	ISO 1133
MVR temperature	200	°C	-
MVR load	5	kg	-
Shrinkage (lengthwise, 24h)	0.6 - 0.8	%	ISO 294-4
Shrinkage (lateral, 24h)	0.5 - 0.7	%	ISO 294-4
Physical Properties			
Density	1050	kg/m ³	ISO 1183
Flammability			
Flammability (1.5 mm)	HB	class	UL 94