



Document	ISO Datasheet
Description	PA 6
Grade	A 6 ST1
Code	
Application	Injection moulding

Unfilled polyamide 6. Impact modified.

Properties	Method	Unit	Value
Physical			
Density at 23°C	ISO 1183	g/cm ³	1,12
Mould Shrinkage (%)	INTERNAL	%	0,9-1,2
Thermal			
Vicat B50	ISO 306	°C	170
HDT, A (1.80 MPa)	ISO 75/Af	°C	55
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	2300
Tensile Modulus (23°C - 1 mm/min)	ISO 527-2	MPa	2500
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	50
Tensile elong. at break (23°C-50 mm/min)	ISO 527-2	%	>20
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	20
Izod unnotched impact strength (23°C)	ISO 180/1U	KJ/m ²	NB
Flammability Class			
Flammability class (3,0 mm)	UL94		HB
Processing Conditions			
Melt Temperature Range	ISO 294	°C	220-240
Mold Temperature Range	ISO 294	°C	60-80
Injection Velocity	ISO 294		MEDIUM
Drying Temperature		°C	80-100
Drying Time		Hour	3
Regulations compliance			
RoHS compliance status	COMPLIANT		
EN71			
UL listed file n°			

Water contact approvals

Food contact status

[§] Moulding shrinkage is not an intrinsic property of plastics. It also depends on moulding parameters. The values reported have been calculated in the direction parallel to the flow in a 3.0 x 12.7 x 127 mm sample.

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