



Document	ISO Datasheet
Description	Polystyrene
Grade	DAFNESTIL AT
Code	
Application	Injection moulding

High impact polystyrene, heat resistant, high stiffness.

Properties	Method	Unit	Value
Physical			
Melt Flow Rate (200°C - 5,00 Kg)	ISO 1133	g/10'	5,0
Density at 23°C	ISO 1183	g/cm ³	1,04
Mould Shrinkage (%)	INTERNAL	%	0,4-0,7
Water absorption	ISO 62	%	<0,1
Thermal			
Vicat A50	ISO 306	°C	103
Vicat B50	ISO 306	°C	94
HDT, A (1.80 MPa)	ISO 75/Af	°C	87
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	1900
Flexural strenght (23°C - 2 mm/min)	ISO 178	MPa	45
Rockwell hardness (L scale)	ISO 2039-2		40
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	6
Izod notched impact strength (-30°C) ISO	ISO 180/1A	KJ/m ²	5,0
Flammability			
Glow Wire Flammability Index GWFI (1,0 mm)	IEC 60695-2-12	°C	650
Glow Wire Flammability Index GWFI (2,0 mm)	IEC 60695-2-12	°C	650
Flammability class (3,2 mm)	UL94		HB
Electrical			
Surface resistivity	IEC 60093	Ohm	>1,5X10E15
Volume resistivity	IEC 60093	Ohm*m	>7X10E15
Comparative tracking index CTI	IEC 60112	V	500
Processing Conditions			

Melt Temperature Range	ISO 294	°C	180-220
Mold Temperature Range	ISO 294	°C	20-60
Injection Velocity	ISO 294		MEDIUM
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 4.0 x 10.0 x 170 mm sample.

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