



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

High impact.Flame Retardant grade With halogens.

Properties	Method	Unit	Value
Physical			
Melt Flow Rate (200°C - 5,00 Kg)	ISO 1133	g/10'	6
Density at 23°C	ISO 1183	g/cm ³	1,17
Mould Shrinkage (%)	INTERNAL	%	0,2-0,4
Thermal			
Vicat A50	ISO 306	°C	95
Vicat B50	ISO 306	°C	90
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	2400
Flexural strenght (23°C - 2 mm/min)	ISO 178	MPa	43
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	21
Tensile elong. at break (23°C-50 mm/min)	ISO 527-2	%	40
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	5,0
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m ²	5,0
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m ²	26
Flammability			
Glow Wire Flammability Index GWFI (1,0 mm)	IEC 60695-2-12	°C	960
Glow Wire Flammability Index GWFI (2,0 mm)	IEC 60695-2-12	°C	960
Flammability class (1,6 mm)	UL94		V2
Electrical			
Comparative tracking index CTI	IEC 60112	V	400
Processing Conditions			
Melt Temperature Range	ISO 294	°C	180-220
Mold Temperature Range	ISO 294	°C	20-60

Injection Velocity	ISO 294	MEDIUM
Drying Temperature		°C 70
Drying Time		Hour 0,5-2
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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