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

Flame retardant V0 Polystyrene. Good impact and good flowability.

Properties	Method	Unit	Value
Physical			
Melt Flow Rate (200°C - 5,00 Kg)	ISO 1133	g/10'	10
Density at 23°C	ISO 1183	g/cm3	1,14-1,18
Mould Shrinkage (%)	INTERNAL	%	0,5-0,7
Thermal			
Vicat A50	ISO 306	°C	95
Vicat B50	ISO 306	°C	85
HDT, A (1.80 MPa)	ISO 75/Af	°C	70
HDT, B (0.45 MPa)	ISO 75/Af	°C	80
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	2000
Flexural strenght (23°C - 2 mm/min)	ISO 178	MPa	35
Rockwell hardness (L scale)	ISO 2039-2		55
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m²	6
Charpy notched impact strength (23°C)	ISO 179/1eA	KJ/m²	6
Charpy unnotched impact strength (23°C)	ISO 179/1eU	KJ/m²	20
Flammability			
Glow Wire Flammability Index GWFI (2,0 mm)	IEC 60695-2-12	°C	960
Flammability class (1,6 mm)	UL94		V0
Flammability class (3,2 mm)	UL94		V0
Electrical			
Comparative tracking index CTI	IEC 60112	V	250
Processing Conditions			
Melt Temperature Range	ISO 294	°C	180-210

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Mold Temperature Range	ISO 294	°C	30-50
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 nº:			
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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