



Document ISO Datasheet

Description Polystyrene

Grade A 10 50

Code

Application

Medium impact polystyrene, easy flow, high stiffness.

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/cm ³	1,04
Thermal			
Vicat A50	ISO 306	°C	94
Vicat B50	ISO 306	°C	85
HDT, A (1.80 MPa)	ISO 75/Af	°C	70
Mechanical at 23 °C			
Flexural Modulus (23°C - 2 mm/min)	ISO 178	MPa	2200
Tensile elong. at break (23°C-50 mm/min)	ISO 527-2	%	40
Tensile stress at yield (23°C-50 mm/min)	ISO 527-2	MPa	25
Izod notched impact strength (23°C) ISO	ISO 180/1A	KJ/m ²	5
Flammability Class			
Glow Wire Flammability Index GWFI (2,0 mm)	IEC 60695-2-12	°C	650
Flammability class (1,5 mm)	UL94		HB
Processing Conditions			
Melt Temperature Range	ISO 294	°C	210-250
Mold Temperature Range	ISO 294	°C	10-50
Injection Velocity	ISO 294		MEDIUM
Regulations compliance			
RoHS compliance status	COMPLIANT		
EN71			
UL listed file n°			
Water contact approvals			
Food contact status			

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[§] 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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