

ALTECH® PS-HI A 1000/100

High Impact Polystyrene

ALBIS PLASTIC GmbH

Message:

ALTECH® PS-HI A 1000/100 is a High Impact Polystyrene product. It can be processed by injection molding and is available in Asia Pacific, Europe, or North America. Applications of ALTECH® PS-HI A 1000/100 include medical/healthcare and electrical/electronic applications.

Characteristics include:

- Flame Rated
- REACH Compliant
- RoHS Compliant

General Information			
Uses	Electrical/Electronic Applications		
	Medical Packaging		
	Personal Care		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.00	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	12	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	87.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1800	MPa	ISO 527-2
Tensile Stress	23.0	MPa	ISO 527-2
Tensile Strain (Break)	40	%	ISO 527-2
Flexural Modulus	1900	MPa	ISO 178
Flexural Stress	40.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	10	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
--	110	kJ/m²	
-40°C	85	kJ/m²	
-20°C	110	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	70.0	°C	ISO 75-2/A
Vicat Softening Temperature	90.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94

Glow Wire Flammability Index (2.00 mm)	650	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature			
Circulation Dryer	60.0 to 80.0	°C	
Desiccant Dryer	60.0 to 80.0	°C	
Drying Time			
Circulation Dryer	2.0 to 3.0	hr	
Desiccant Dryer	2.0 to 3.0	hr	
Processing (Melt) Temp	180 to 260	°C	
Mold Temperature	10.0 to 70.0	°C	

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