

ALCOM® MED PS 1000 14113

High Impact Polystyrene

ALBIS PLASTIC GmbH

Message:

ALCOM®MED PS 1000 14113 is a high impact polystyrene product. It can be processed by injection molding and is available in North America, Europe or the Asia-Pacific region. ALCOM®MED PS 1000 14113 applications include medical/health care and housing.

Features include:

flame retardant/rated flame

Comply with REACH standard

ROHS certification

General Information			
Uses	Personal care		
	Shell		
	Medical/nursing supplies		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.03	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (200°C/5.0 kg)	14.0	cm³/10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	88.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	25.0	MPa	ISO 527-2
--	25.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	1.0	%	ISO 527-2
Fracture	11	%	ISO 527-2
Flexural Modulus	2250	MPa	ISO 178
Flexural Stress			ISO 178
3.5% strain	39.0	MPa	ISO 178
--	40.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
--	50	kJ/m²	ISO 179/1eU
-40°C	25	kJ/m²	ISO 179/1eU

-20°C	45	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	76.0	°C	ISO 75-2/A
Vicat Softening Temperature	81.0	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.5 mm	HB		UL 94
3.0 mm	HB		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
1.0 mm	650	°C	IEC 60695-2-12
2.0 mm	650	°C	IEC 60695-2-12
3.0 mm	650	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature			
Dehumidification desiccant	60 - 80	°C	
Hot air dryer	60 - 80	°C	
Drying Time			
Dehumidification desiccant	2.0 - 3.0	hr	
Hot air dryer	2.0 - 3.0	hr	
Processing (Melt) Temp	180 - 260	°C	
Mold Temperature	10 - 70	°C	

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