

Infino HM-1100

Polycarbonate + ABS

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino HM-1100 is a polycarbonate acrylonitrile butadiene styrene (PC ABS) product, which contains a glass fiber reinforced material. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: electrical/electronic applications.

Features include:

flame retardant/rated flame

Flame Retardant

General Information			
UL YellowCard	E115797-100826520		
Filler / Reinforcement	Glass fiber reinforced material		
Features	Flame retardancy		
Uses	Electrical/Electronic Applications		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.26	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
220°C/10.0 kg	22	g/10 min	ASTM D1238, ISO 1133
250°C/2.16 kg	7.0	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.10	%	ASTM D955
Transverse flow	0.10	%	ASTM D955
Transverse flow	0.10	%	ISO 2577
Traffic: 3.20mm	0.10	%	ISO 2577
Tg (half width) - DSC	101	°C	
Ash Content			
--	9.5	%	ISO 3451
--	9.5	%	ASTM D5630
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	118		ASTM D785
R scale	118		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	3400	MPa	ASTM D638
--	3400	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	59.0	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2/5
Fracture ³	59.0	MPa	ASTM D638

Fracture	55.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ⁴	4.0	%	ASTM D638
Fracture	4.0	%	ISO 527-2/5
Flexural Modulus			
-- ⁵	3900	MPa	ASTM D790
-- ⁶	3800	MPa	ISO 178
Flexural Strength			
-- ⁷	96.0	MPa	ASTM D790
-- ⁸	95.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	7.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	79	J/m	ASTM D256
23°C, 6.35 mm	79	J/m	ASTM D256
23°C ¹⁰	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	97.0	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	97.0	°C	ISO 75-2/B
0.45 MPa, annealing, 4.00mm	102	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	96.0	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	96.0	°C	ISO 75-2/A
1.8 MPa, annealing, 4.00mm	98.0	°C	ISO 75-2/A
Vicat Softening Temperature	99.0	°C	ISO 306/B50
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
2.0 mm	V-0	UL 94	
3.0 mm	V-0	UL 94	
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	5.0 mm/min		
5.	2.8 mm/min		
6.	2.0 mm/min		
7.	2.8 mm/min		
8.	2.0 mm/min		
9.	Thickness: 4mm		
10.	Thickness: 4mm		

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