

Infino HM-4300G

Polyphthalamide

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino HM-4300G is a polyxylylene amide (PPA) product, which contains glass fiber reinforcement. 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

Heat resistance

General Information			
UL YellowCard	E115797-102180116		
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good Heat Resistance		
Uses	Mobile phone		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.41	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (330°C/2.16 kg)	25	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.30 - 0.40	%	ASTM D955
Transverse flow: 3.20mm	0.80 - 0.90	%	ASTM D955
Lateral flow: 3.20mm	0.80 - 0.90	%	ISO 2577
Traffic: 3.20mm	0.30 - 0.40	%	ISO 2577
Ash Content			
--	30	%	ASTM D5630
--	30	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	120		ASTM D785
R scale	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	200	MPa	ASTM D638
Yield	200	MPa	ISO 527-2/5
Fracture ²	200	MPa	ASTM D638
Fracture	200	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ³	3.0	%	ASTM D638
Fracture	3.0	%	ISO 527-2/5
Flexural Modulus ⁴			
--	9300	MPa	ASTM D790

--	10000	MPa	ISO 178
Flexural Strength ⁵	250	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁶ (23°C)	8.0	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 ⁷	8.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	295	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	295	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating (0.8 to 3.0mm)	HB		UL 94
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	5.0 mm/min		
4.	2.8 mm/min		
5.	2.8 mm/min		
6.	Thickness: 4mm		
7.	Thickness: 4mm		

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