

Infino HX-4450G

Polyphthalamide

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino HX-4450G is a polyxylene 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

Flame Retardant

General Information			
UL YellowCard	E115797-101743705		
Filler / Reinforcement	Glass fiber reinforced material		
Features	Flame retardancy		
Uses	Electrical/Electronic Applications		
	Connector		

Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.60	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (330°C/2.16 kg)	8.5	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.20 - 0.40	%	ASTM D955
Transverse flow: 3.20mm	0.30 - 0.50	%	ASTM D955
Lateral flow: 3.20mm	0.30 - 0.50	%	ISO 2577
Traffic: 3.20mm	0.20 - 0.40	%	ISO 2577

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	125		ASTM D785
R scale	125		ISO 2039-2

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	14700	MPa	ASTM D638
--	15000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	157	MPa	ASTM D638
Yield	160	MPa	ISO 527-2/50
Fracture ³	157	MPa	ASTM D638
Fracture	160	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	3.0	%	ASTM D638
Fracture	3.0	%	ISO 527-2/50

Flexural Modulus			
-- 5	13200	MPa	ASTM D790
-- 6	13500	MPa	ISO 178
Flexural Strength			
-- 7	235	MPa	ASTM D790
-- 8	240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	6.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	59	J/m	ASTM D256
23°C, 6.35 mm	59	J/m	ASTM D256
23°C ¹⁰	6.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	285	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	285	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating (0.40 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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