

Infino HA-4350G

Polyphthalamide

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino HA-4350G 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: automotive industry. The main characteristics are: heat resistance.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	Good Heat Resistance		
Uses	Application in Automobile Field		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.47	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (330°C/2.16 kg)	17	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.32	%	ASTM D955
Transverse flow: 3.20mm	0.46	%	ASTM D955
Lateral flow: 3.20mm	0.46	%	ISO 2577
Traffic: 3.20mm	0.32	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	124		ASTM D785
R scale	124		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	6960	MPa	ASTM D638
--	7000	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	206	MPa	ASTM D638
Yield	215	MPa	ISO 527-2/5
Fracture ³	206	MPa	ASTM D638
Fracture	215	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ⁴	4.1	%	ASTM D638
Fracture	4.2	%	ISO 527-2/5
Flexural Modulus			
-- ⁵	10800	MPa	ASTM D790
-- ⁶	10500	MPa	ISO 178
Flexural Strength			
-- ⁷	275	MPa	ASTM D790

-- 8	275	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	11	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	74	J/m	ASTM D256
23°C, 6.35 mm	74	J/m	ASTM D256
23°C ¹⁰	10	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	290	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	290	°C	ISO 75-2/A
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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