

Infino HX-4300G

Polyphthalamide
SAMSUNG SDI CO., LTD.

Message:

Infino HX-4300G is a Polyphthalamide (PPA) product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.45	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			ASTM D955, ISO 2577
Flow : 3.20 mm	0.45 to 0.55	%	
Across Flow : 3.20 mm	0.57 to 0.70	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	8300	MPa	ASTM D638
--	9600	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	170	MPa	ASTM D638
Yield	160	MPa	ISO 527-2/5
Break ³	170	MPa	ASTM D638
Break	170	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	3.0	%	ASTM D638
Break	3.0	%	ISO 527-2/5
Flexural Modulus			
-- ⁵	9800	MPa	ASTM D790
-- ⁶	10600	MPa	ISO 178
Flexural Strength			
-- ⁷	220	MPa	ASTM D790
-- ⁸	210	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	64	J/m	ASTM D256
23°C, 6.35 mm	69	J/m	ASTM D256

23°C ¹⁰	8.3	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	290	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	290	°C	ISO 75-2/A
Electrical	Nominal Value		Test Method
Comparative Tracking Index	1 PLC		IEC 60112
Flammability	Nominal Value		Test Method
Flame Rating (0.400 to 3.00 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	120	°C	
Desiccant Dryer	120	°C	
Drying Time			
--	4.0 to 6.0	hr	
Desiccant Dryer	2.0 to 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	280 to 290	°C	
Middle Temperature	300 to 310	°C	
Front Temperature	320 to 330	°C	
Nozzle Temperature	330	°C	
Mold Temperature	100 to 140	°C	
Injection Pressure	108	MPa	
Back Pressure	0.490 to 1.96	MPa	
Screw Speed	50 to 150	rpm	
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: 4 mm		
10.	Thickness: 4 mm		

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