

Infino TK-4046H

Polyphthalamide
SAMSUNG SDI CO., LTD.

Message:

Infino TK-4046H 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	1.58	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (330°C/5.0 kg)	25	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 3.20 mm	0.75	%	
Across Flow : 3.20 mm	0.86	%	
Ash Content			
--	41	%	ASTM D5630
--	41	%	ISO 3451
Initial Reflectance (440 nm)	94	%	ASTM E1331
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ASTM D785, ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4800	MPa	ASTM D638
--	6200	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	110	MPa	ASTM D638
Yield	100	MPa	ISO 527-2/5
Break ³	110	MPa	ASTM D638
Break	100	MPa	ISO 527-2/5
Tensile Elongation			
Break ⁴	2.4	%	ASTM D638
Break	2.0	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	7400	MPa	ASTM D790
-- ⁶	6300	MPa	ISO 178
Flexural Strength			
-- ⁷	140	MPa	ASTM D790
-- ⁸	150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ⁹ (23°C)	24	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	35	J/m	ASTM D256
23°C, 6.35 mm	33	J/m	ASTM D256
23°C ¹⁰	4.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 4.00 mm	265	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	240	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Yellowness Index (3.20 mm)	4.0	YI	ASTM D1925
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°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	285 to 290	°C	
Middle Temperature	295	°C	
Front Temperature	295 to 300	°C	
Nozzle Temperature	300	°C	
Mold Temperature	130 to 160	°C	
Injection Pressure	118	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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any

infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

