

Infino TK-2046H

Polycyclohexylenedimethylene Terephthalate

SAMSUNG SDI CO., LTD.

Message:

Infino TK-2046H is a Polycyclohexylenedimethylene Terephthalate (PCT) 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			
UL YellowCard	E115797-101029927		
Filler / Reinforcement	Glass Fiber		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.60	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	60	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			ASTM D955, ISO 2577
Flow : 3.20 mm	0.41 to 0.50	%	
Across Flow : 3.20 mm	0.61 to 0.74	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	5600	MPa	ASTM D638
Tensile Strength			
Yield ²	62.0	MPa	ASTM D638
Yield	62.0	MPa	ISO 527-2/5
Break ³	61.0	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	1.5	%	ASTM D638
Flexural Modulus			
-- ⁵	7000	MPa	ASTM D790
-- ⁶	7000	MPa	ISO 178
Flexural Strength			
-- ⁷	80.0	MPa	ASTM D790
-- ⁸	90.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	2.0	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	25	J/m	ASTM D256
23°C ¹⁰	2.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 6.40 mm	281	°C	ASTM D648
1.8 MPa, Unannealed, 6.40 mm	260	°C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	260	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method

Flame Rating (1.50 to 3.00 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Reflectance - Initial ¹¹	90	%	ASTM E1331
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	290 to 295	°C	
Middle Temperature	300	°C	
Front Temperature	305 to 310	°C	
Nozzle Temperature	310	°C	
Mold Temperature	130 to 160	°C	
Injection Pressure	120	MPa	
Back Pressure	0.500 to 2.00	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.	4 mm		
10.	Thickness: 4 mm		
11.	Condition: At 440 NM		

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