

Infino TK-2050HL

Polycyclohexylenedimethylene Terephthalate

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino TK-2050HL is a polycyclohexyldimethyl terephthalate (PCT) product, which contains a glass fiber reinforced material. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: mirrors. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E115797-101876530		
Filler / Reinforcement	Glass fiber reinforced material		
Features	General		
Uses	Reflector		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.77	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/2.16 kg)	15	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.54	%	ASTM D955
Transverse flow: 3.20mm	0.56	%	ASTM D955
Lateral flow: 3.20mm	0.56	%	ISO 2577
Traffic: 3.20mm	0.54	%	ISO 2577
Ash Content			
--	51	%	ASTM D5630
--	51	%	ISO 3451
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	111		ASTM D785
R scale	111		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	4060	MPa	ASTM D638
--	4100	MPa	ISO 527-2/5
Tensile Strength			
Yield ²	58.8	MPa	ASTM D638
Yield	56.0	MPa	ISO 527-2/5
Fracture ³	58.8	MPa	ASTM D638
Fracture	56.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ⁴	2.1	%	ASTM D638
Fracture	2.1	%	ISO 527-2/5

Flexural Modulus			
-- ⁵	6080	MPa	ASTM D790
-- ⁶	5200	MPa	ISO 178
Flexural Strength			
-- ⁷	90.2	MPa	ASTM D790
-- ⁸	80.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ¹⁰ (23°C)	22	kJ/m ²	ISO 179/1eU
Notched Izod Impact			
23°C, 3.18 mm	29	J/m	ASTM D256
23°C, 6.35 mm	27	J/m	ASTM D256
23°C ¹¹	3.6	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C, 3.18 mm	250	J/m	ASTM D256
23°C, 6.35 mm	200	J/m	ASTM D256
-5°C ¹²	16	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	250	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	250	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	202	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	202	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating (1.5 to 3.0mm)	HB		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		
11.	Thickness: 4mm		
12.	Thickness: 4mm		

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.

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



WECHAT