

Infino TK-2046HD

Polycyclohexylenedimethylene Terephthalate
LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino TK-2046HD 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.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	General		
Uses	Reflector		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.53	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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	66.0	MPa	ASTM D638
Yield	58.0	MPa	ISO 527-2/5
Tensile Elongation			
Fracture ²	2.0	%	ASTM D638
Fracture	2.0	%	ISO 527-2/5
Flexural Modulus ³			
--	5500	MPa	ASTM D790
--	5400	MPa	ISO 178
Flexural Strength ⁴			
--	94.0	MPa	ASTM D790
--	88.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (23°C)	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁶ (23°C)	25	kJ/m ²	ISO 179/1eU
Notched Izod Impact			
23°C, 3.18 mm	29	J/m	ASTM D256
23°C, 6.35 mm	29	J/m	ASTM D256
23°C ⁷	2.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C, 3.18 mm	300	J/m	ASTM D256
23°C, 6.35 mm	290	J/m	ASTM D256
-5°C ⁸	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
1.8 MPa, unannealed, 6.40mm	245	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	245	°C	ISO 75-2/A
Optical	Nominal Value	Unit	Test Method
Yellowness Index			ASTM D1925
--	3.0	YI	ASTM D1925
3.20 mm	3.0	YI	ASTM D1925
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	2.8 mm/min		
4.	2.8 mm/min		
5.	Thickness: 4mm		
6.	Thickness: 4mm		
7.	Thickness: 4mm		
8.	Thickness: 4mm		

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