

Infino FD-1106

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino FD-1106 is a polycarbonate (PC) product. It is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Typical application areas are: lighting equipment. The main features are: flame retardant.

General Information			
Features	Flame retardancy		
Uses	Illumination diffuser		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.19	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	10	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.45 - 0.55	%	ASTM D955
Transverse flow: 3.20mm	0.45 - 0.55	%	ASTM D955
Lateral flow: 3.20mm	0.45 - 0.55	%	ISO 2577
Traffic: 3.20mm	0.45 - 0.55	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	115		ASTM D785
R scale	115		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	1900	MPa	ASTM D638
--	1890	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	62.0	MPa	ASTM D638
Yield	6.20	MPa	ISO 527-2/50
Fracture ³	62.0	MPa	ASTM D638
Fracture	6.20	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	120	%	ASTM D638
Fracture	120	%	ISO 527-2/50
Flexural Modulus ⁵			
--	2100	MPa	ASTM D790
--	2140	MPa	ISO 178
Flexural Strength ⁶	84.0	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	20	kJ/m ²	ISO 179/1eA

Notched Izod Impact			
23°C, 3.18 mm	98	J/m	ASTM D256
23°C, 6.35 mm	98	J/m	ASTM D256
23°C ⁸	14	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	131	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	131	°C	ISO 75-2/B
Vicat Softening Temperature	148	°C	ISO 306/B50
Optical	Nominal Value	Unit	Test Method
Transmittance			
1000 μm	47.8	%	ASTM D1003
1000 μm	47.8	%	ISO 13468
Haze			
1000 μm	96	%	ASTM D1003
1000 μm	96	%	ISO 13468
Additional Information	Nominal Value	Unit	Test Method
Diffusion Degree (1.00 mm)	55	°C	Internal method
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		
5.	2.8 mm/min		
6.	2.8 mm/min		
7.	Thickness: 4mm		
8.	Thickness: 4mm		

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