

Infino FD-1010

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino FD-1010 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.
Features include:
flame retardant/rated flame
Flame Retardant

General Information			
UL YellowCard	E115797-100949807		
Features	Flame retardancy		
Uses	Illumination diffuser		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	16	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.50	%	ASTM D955
Transverse flow: 3.20mm	0.50	%	ASTM D955
Lateral flow: 3.20mm	0.50	%	ISO 2577
Traffic: 3.20mm	0.50	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	120		ASTM D785
R scale	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2060	MPa	ASTM D638
--	2000	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	63.7	MPa	ASTM D638
Yield	63.0	MPa	ISO 527-2/50
Fracture ³	75.5	MPa	ASTM D638
Fracture	65.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	100	%	ASTM D638
Fracture	100	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2260	MPa	ASTM D790
-- ⁶	2260	MPa	ISO 178

Flexural Strength			
-- ⁷	94.1	MPa	ASTM D790
-- ⁸	93.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	120	J/m	ASTM D256
23°C ¹⁰	9.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm	139	°C	ISO 75-2/B
0.45 MPa, annealing, 4.00mm	139	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	130	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	125	°C	ISO 75-2/A
1.8 MPa, annealing, 4.00mm	125	°C	ISO 75-2/A
Vicat Softening Temperature			
--	144	°C	ISO 306/B50
--	148	°C	ISO 306/B120
Flammability	Nominal Value	Test Method	
Flame Rating			UL 94
1.5 to 2.0mm	V-2	UL 94	
3.0 mm	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Hot air dryer	100	°C	
Drying Time			
--	2.0 - 6.0	hr	
Hot air dryer	2.0 - 4.0	hr	
Suggested Max Moisture	< 0.050	%	
Rear Temperature	280 - 300	°C	
Middle Temperature	260 - 270	°C	
Front Temperature	240 - 250	°C	
Nozzle Temperature	290 - 310	°C	
Mold Temperature	40 - 100	°C	
Injection Pressure	49.0 - 245	MPa	
Back Pressure	0.490 - 1.96	MPa	
Screw Speed	50 - 150	rpm	
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		

4.	50 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

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