

Infino CF-3300HF

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino CF-3300HF is a polycarbonate (PC) product that 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: electrical/electronic applications.

Features include:

flame retardant/rated flame

ROHS certification

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Features	General		
Uses	Mobile phone		
RoHS Compliance	RoHS compliance		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.40	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	22	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.10 - 0.30	%	ASTM D955
Transverse flow: 3.20mm	0.10 - 0.30	%	ASTM D955
Lateral flow: 3.20mm	0.10 - 0.30	%	ISO 2577
Traffic: 3.20mm	0.10 - 0.30	%	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	6400	MPa	ASTM D638
--	6900	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	120	MPa	ASTM D638
Yield	125	MPa	ISO 527-2/50
Fracture ³	120	MPa	ASTM D638
Fracture	125	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	3.8	%	ASTM D638
Fracture	3.8	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	6500	MPa	ASTM D790

-- 6	7300	MPa	ISO 178
Flexural Strength			
-- 7	170	MPa	ASTM D790
-- 8	180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	18	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	180	J/m	ASTM D256
23°C, 6.35 mm	150	J/m	ASTM D256
23°C ¹⁰	17	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	143	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	143	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	140	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	138	°C	ISO 75-2/A
Vicat Softening Temperature			
--	147	°C	ISO 306/B50
--	148	°C	ISO 306/B120
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.8 mm	V-2		UL 94
3.2 mm	V-1		UL 94
Injection	Nominal Value	Unit	
Drying Temperature			
--	100	°C	
Hot air dryer	100	°C	
Drying Time			
--	4.0 - 6.0	hr	
Hot air dryer	2.0 - 4.0	hr	
Suggested Max Moisture	< 0.10	%	
Rear Temperature	270	°C	
Middle Temperature	280 - 290	°C	
Front Temperature	300	°C	
Nozzle Temperature	300	°C	
Mold Temperature	80 - 120	°C	
Injection Pressure	98.0	MPa	
Back Pressure	1.00	MPa	
Screw Speed	40	rpm	
Injection instructions			
Hot Runner Manifold Temperature: 300°C Hot Runner Valve Nozzle Temperature: 300°C			
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.	3000 mm/min
9.	Thickness: 4mm
10.	Thickness: 4mm

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Recommended distributors for this material

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

