

Infino GM-1080

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino GM-1080 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: electrical/electronic applications. The main characteristics are: flame retardant/rated flame.

General Information			
UL YellowCard	E115797-101707305		
Features	General		
Uses	Mobile phone		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.20	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
250°C/10.0 kg	30	g/10 min	ASTM D1238, ISO 1133
300°C/1.2 kg	17	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.50	%	ASTM D955
Transverse flow: 3.20mm	0.50 - 0.60	%	ASTM D955
Lateral flow: 3.20mm	0.50 - 0.60	%	ISO 2577
Traffic: 3.20mm	0.50	%	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	1800	MPa	ASTM D638
--	1850	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	58.0	MPa	ASTM D638
Yield	60.0	MPa	ISO 527-2/50
Fracture ³	59.0	MPa	ASTM D638
Fracture	70.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	100	%	ASTM D638
Fracture	100	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	1900	MPa	ASTM D790
-- ⁶	1900	MPa	ISO 178

Flexural Strength			
-- 7	74.0	MPa	ASTM D790
-- 8	75.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	59	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	760	J/m	ASTM D256
23°C, 6.35 mm	570	J/m	ASTM D256
23°C ¹⁰	54	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, unannealed, 6.40mm	135	°C	ASTM D648
0.45 MPa, unannealed, 4.00mm	130	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	125	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	115	°C	ISO 75-2/A
Vicat Softening Temperature	137	°C	ISO 306/B50
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.8 mm	V-2		UL 94
3.0 mm	V-2		UL 94
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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