

Infino LT-1100

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino LT-1100 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: automotive industry.

General Information			
UL YellowCard	E115797-101752045		
Features	General		
Uses	Application in Automobile Field		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.19	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
250°C/10.0 kg	25	g/10 min	ASTM D1238, ISO 1133
300°C/1.2 kg	11	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.50 - 0.80	%	ASTM D955
Transverse flow: 3.20mm	0.60 - 0.90	%	ASTM D955
Lateral flow: 3.20mm	0.60 - 0.90	%	ISO 2577
Traffic: 3.20mm	0.50 - 0.80	%	ISO 2577
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
Class r	122		ASTM D785
R scale	122		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2200	MPa	ASTM D638
--	2100	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	63.0	MPa	ASTM D638
Yield	62.0	MPa	ISO 527-2/50
Fracture ³	65.0	MPa	ASTM D638
Fracture	64.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	110	%	ASTM D638
Fracture	91	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2300	MPa	ASTM D790
-- ⁶	2200	MPa	ISO 178

Flexural Strength			
-- ⁷	90.0	MPa	ASTM D790
-- ⁸	91.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	78	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	850	J/m	ASTM D256
23°C, 6.35 mm	150	J/m	ASTM D256
23°C ¹⁰	69	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm	137	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	135	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	124	°C	ISO 75-2/A
Vicat Softening Temperature	144	°C	ISO 306/B50
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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