

Infino LT-1220

Polycarbonate

LOTTE ADVANCED MATERIALS CO., LTD.

Message:

Infino LT-1220 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	E115797-101752046		
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) (300°C/1.2 kg)	22	g/10 min	ASTM D1238, ISO 1133
Molding Shrinkage			
Flow: 3.20mm	0.50 - 0.70	%	ASTM D955
Transverse flow: 3.20mm	0.50 - 0.70	%	ASTM D955
Lateral flow: 3.20mm	0.50 - 0.70	%	ISO 2577
Traffic: 3.20mm	0.50 - 0.70	%	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	2200	MPa	ASTM D638
--	2100	MPa	ISO 527-2/50
Tensile Strength			
Yield ²	54.0	MPa	ASTM D638
Yield	65.0	MPa	ISO 527-2/50
Fracture ³	65.0	MPa	ASTM D638
Fracture	60.0	MPa	ISO 527-2/50
Tensile Elongation			
Fracture ⁴	90	%	ASTM D638
Fracture	90	%	ISO 527-2/50
Flexural Modulus			
-- ⁵	2000	MPa	ASTM D790
-- ⁶	2100	MPa	ISO 178
Flexural Strength			
-- ⁷	78.0	MPa	ASTM D790

-- 8	92.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁹ (23°C)	77	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C, 3.18 mm	740	J/m	ASTM D256
23°C, 6.35 mm	120	J/m	ASTM D256
23°C ¹⁰	59	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, unannealed, 4.00mm	135	°C	ISO 75-2/B
1.8 MPa, unannealed, 6.40mm	124	°C	ASTM D648
1.8 MPa, not annealed, 4.00mm	122	°C	ISO 75-2/A
	142		
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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