

# Infino HP-1000XC

Polycarbonate + ABS

LOTTE ADVANCED MATERIALS CO., LTD.

**PROSPECTOR**<sup>®</sup>

www.ulprospector.com

## Technical Data

### Product Description

Infino HP-1000XC is a Polycarbonate + ABS (PC+ABS) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing (English)</a> • <a href="#">Technical Information - ASTM (English)</a> • <a href="#">Technical Information - ISO (English)</a>
Search for UL Yellow Card	• <a href="#">LOTTE ADVANCED MATERIALS CO., LTD.</a> • <a href="#">Infino</a>
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity (Natural)	1.17 g/cm <sup>3</sup>	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	4.0 g/10 min	ASTM D1238 ISO 1133
Molding Shrinkage		
Flow : 3.20 mm	0.40 to 0.70 %	ASTM D955
Across Flow : 3.20 mm	0.40 to 0.70 %	ASTM D955
Across Flow : 2.00 mm	0.40 to 0.70 %	ISO 294-4
Flow : 2.00 mm	0.40 to 0.70 %	ISO 294-4

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- <sup>3</sup>	2400 MPa	ASTM D638
--	2200 MPa	ISO 527-2/50
Tensile Strength		
Yield <sup>3</sup>	59.0 MPa	ASTM D638
Yield	60.0 MPa	ISO 527-2/50
Break <sup>3</sup>	59.0 MPa	ASTM D638
Break	61.0 MPa	ISO 527-2/50
Tensile Elongation		
Break <sup>3</sup>	110 %	ASTM D638
Break	100 %	ISO 527-2/50
Flexural Modulus		
-- <sup>4</sup>	2300 MPa	ASTM D790
-- <sup>5</sup>	2400 MPa	ISO 178
Flexural Strength		
-- <sup>4</sup>	88.0 MPa	ASTM D790
-- <sup>5</sup>	90.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength <sup>6</sup> (23°C)	60 kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact		
23°C, 3.18 mm	640 J/m	ASTM D256
23°C, 6.35 mm	540 J/m	ASTM D256
23°C <sup>6</sup>	55 kJ/m <sup>2</sup>	ISO 180/1A

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	118	ASTM D785 ISO 2039-2



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Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 6.40 mm	111 °C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm	102 °C	ISO 75-2/A
Vicat Softening Temperature	124 °C	ISO 306/B50

Injection	Nominal Value Unit
Drying Temperature	
Desiccant Dryer	90 to 100 °C
Hot Air Dryer	90 to 100 °C
Drying Time	
Desiccant Dryer	2.0 to 4.0 hr
Hot Air Dryer	2.0 to 4.0 hr
Suggested Max Moisture	0.020 %
Rear Temperature	230 to 250 °C
Middle Temperature	240 to 260 °C
Front Temperature	260 to 270 °C
Nozzle Temperature	250 to 280 °C
Mold Temperature	60 to 90 °C
Injection Pressure	147 MPa
Back Pressure	0.490 to 1.96 MPa
Screw Speed	50 to 150 rpm

## Injection Notes

Hot Runner Temperature: 250 to 280°C

## Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 50 mm/min

<sup>4</sup> 10 mm/min

<sup>5</sup> 2.0 mm/min

<sup>6</sup> 4mm

