

## Infino NH-1015S

## LOTTE ADVANCED MATERIALS CO., LTD. - Polycarbonate + ABS

LOTTE ADVANCED MA	TERIALS CO., LTD POI	ycarbonate + AbS	Thursday, September 29, 2016			
General Information						
General						
Material Status	Commercial: Active					
Availability	Africa & Middle East	• Europe	North Amorica			
	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Latin America</li> </ul>	North America			
Features	<ul> <li>Flame Retardant</li> </ul>					
Uses	<ul> <li>Appliances</li> </ul>	Computer Components				
	ASTM & ISO	O Properties <sup>1</sup>				
Physical		Nominal Value Unit	Test Method			
Specific Gravity (Natural)		1.18	ASTM D792			

ASTN	I & ISO Properties <sup>1</sup>		
Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.18		ASTM D792
Density (Natural)	1.18	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	36	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	36	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>2</sup>	348000	psi	ASTM D638
Tensile Modulus	363000	psi	ISO 527-2/50
Tensile Strength <sup>2</sup> (Yield)	8560	psi	ASTM D638
Tensile Stress (Yield)	8850	psi	ISO 527-2/50
Tensile Strength <sup>2</sup> (Break)	6820	psi	ASTM D638
Tensile Stress (Break)	6960	psi	ISO 527-2/50
Tensile Elongation <sup>2</sup> (Break)	26	%	ASTM D638
Tensile Strain (Break)	27	%	ISO 527-2/50
Flexural Modulus <sup>3</sup>	348000	psi	ASTM D790
Flexural Modulus <sup>4</sup>	370000	psi	ISO 178
Flexural Strength <sup>3</sup>	12300	psi	ASTM D790
Flexural Stress <sup>4</sup>	12900	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength <sup>5</sup> (73°F)	13	ft·lb/in²	ISO 179/1eA
Notched Izod Impact (73°F, 0.125 in)	9.6	ft·lb/in	ASTM D256
Notched Izod Impact Strength <sup>5</sup> (73°F)	17	ft·lb/in²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Rockwell Hardness (R-Scale)	121		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, 0.252 in	205	°F	
Heat Deflection Temperature			ISO 75-2/B
66 psi, Unannealed, 0.157 in	203	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, 0.252 in	198	°F	
Heat Deflection Temperature			ISO 75-2/A
264 psi, Unannealed, 0.157 in	183	°F	

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Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
	212	°F	ISO 306/B50
	217	°F	ISO 306/B120
RTI Elec (0.06 in)	194	°F	UL 746
RTI Imp (0.06 in)	185	°F	UL 746
RTI Str (0.06 in)	194	°F	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94

Processing Information			
Injection	Nominal Value	Unit	
Drying Temperature			
	176	°F	
Desiccant Dryer	176	°F	
Drying Time			
	3.0	hr	
Desiccant Dryer	2.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	446 to 464	°F	
Middle Temperature	482 to 518	°F	
Front Temperature	518 to 536	°F	
Nozzle Temperature	536	°F	
Mold Temperature	122 to 194	°F	
Injection Pressure	14200	psi	
Back Pressure	72.5	psi	
Screw Speed	50	rpm	
Injection Notes			

Hot Runner Manifold Temperature: 280°C
Hot Runner Valve Nozzle Temperature: 280°C

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>&</sup>lt;sup>2</sup> 2.0 in/min

<sup>&</sup>lt;sup>3</sup> 0.11 in/min

<sup>&</sup>lt;sup>4</sup> 0.079 in/min

<sup>&</sup>lt;sup>5</sup> Thickness: 4mm