



OSTERMAN

# Infino NH-1015V

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

Thursday, September 29, 2016

## General Information

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Flame Retardant		
Uses	• Appliances	• Computer Components	

## ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.17		ASTM D792
Density (Natural)	1.17	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	30	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	30	g/10 min	ISO 1133
Molding Shrinkage - Flow (0.126 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	363000	psi	ISO 527-2/50
Tensile Strength <sup>2</sup> (Yield)	9280	psi	ASTM D638
Tensile Stress (Yield)	8850	psi	ISO 527-2/50
Tensile Stress (Break)	6960	psi	ISO 527-2/50
Tensile Strain (Break)	45	%	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>	12600	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)	8.1	ft-lb/in <sup>2</sup>	ISO 179/1eA
Notched Izod Impact (73°F, 0.125 in)	10	ft-lb/in	ASTM D256
Notched Izod Impact Strength <sup>5</sup> (73°F)	6.7	ft-lb/in <sup>2</sup>	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Rockwell Hardness (R-Scale)	118		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature 66 psi, Unannealed, 0.157 in	201	°F	ISO 75-2/B
Heat Deflection Temperature 66 psi, Annealed, 0.157 in	216	°F	ISO 75-2/B
Deflection Temperature Under Load 264 psi, Unannealed, 0.252 in	187	°F	ASTM D648
Heat Deflection Temperature 264 psi, Unannealed, 0.157 in	180	°F	ISO 75-2/A
Heat Deflection Temperature 264 psi, Annealed, 0.157 in	207	°F	ISO 75-2/A

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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			UL 94
0.06 in	V-0		
0.08 in	5VB		

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature		
--	176	°F
Desiccant Dryer	176	°F
Drying Time		
--	4.0 to 6.0	hr
Desiccant Dryer	2.0 to 4.0	hr
Suggested Max Moisture	< 0.050	%
Rear Temperature	428 to 446	°F
Middle Temperature	464 to 482	°F
Front Temperature	500 to 518	°F
Nozzle Temperature	518	°F
Mold Temperature	122 to 158	°F
Injection Pressure	14200	psi
Back Pressure	71.1 to 284	psi
Screw Speed	50 to 150	rpm

### Notes

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

<sup>2</sup> 2.0 in/min

<sup>3</sup> 0.11 in/min

<sup>4</sup> 0.079 in/min

<sup>5</sup> Thickness: 4mm