



OSTERMAN

Infino NH-1015

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 ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity (Natural)	1.18		ASTM D792
Density (Natural)	1.18	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	23	g/10 min	ASTM D1238
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	23	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	363000	psi	ISO 527-2/50
Tensile Strength ² (Yield)	8990	psi	ASTM D638
Tensile Stress (Yield)	8700	psi	ISO 527-2/50
Tensile Stress (Break)	6960	psi	ISO 527-2/50
Flexural Modulus ³	348000	psi	ASTM D790
Flexural Modulus ⁴	355000	psi	ISO 178
Flexural Strength ³	12500	psi	ASTM D790
Flexural Stress ⁴	12800	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁵ (73°F)	21	ft-lb/in ²	ISO 179/1eA
Notched Izod Impact (73°F, 0.125 in)	11	ft-lb/in	ASTM D256
Notched Izod Impact Strength ⁵ (73°F)	19	ft-lb/in ²	ISO 180/1A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature 66 psi, Unannealed, 0.157 in	199	°F	ISO 75-2/B
Heat Deflection Temperature 66 psi, Annealed, 0.157 in	208	°F	ISO 75-2/B
Heat Deflection Temperature 264 psi, Unannealed, 0.157 in	178	°F	ISO 75-2/A
Heat Deflection Temperature 264 psi, Annealed, 0.157 in	199	°F	ISO 75-2/A
Vicat Softening Temperature --	208	°F	ISO 306/B50
--	212	°F	ISO 306/B120
RTI Elec (0.06 in)	194	°F	UL 746
RTI Imp (0.06 in)	185	°F	UL 746

LEGAL DISCLAIMER: Before using a product sold by Osterman, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT. This product(s) may not be used in: (i) any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I medical devices, without prior notification to Seller for each specific product and application; or (ii) the manufacture of any of the following, without prior written approval by Seller for each specific product and application: U.S. FDA Class II Medical Devices; Health Canada Class II or Class III Medical Devices; European Union Class II Medical Devices; film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices; packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; and tobacco related products and applications. Additionally, the product(s) may not be used in: (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices; (ii) applications involving permanent implantation into the body; (iii) life-sustaining medical applications; and (iv) lead, asbestos or MTBE related applications. All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Infino NH-1015

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

Thermal	Nominal Value	Unit	Test Method
RTI Str (0.06 in)	194	°F	UL 746
Electrical	Nominal Value	Unit	Test Method
High Amp Arc Ignition (HAI) (0.06 in)	PLC 3		UL 746
Hot-wire Ignition (HWI) (0.06 in)	PLC 2		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-0		
0.08 in	5VB		
0.12 in	5VA		
Glow Wire Flammability Index (0.04 in)	1760	°F	IEC 60695-2-12
Glow Wire Ignition Temperature (0.04 in)	1430	°F	IEC 60695-2-13

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

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min

³ 0.11 in/min

⁴ 0.079 in/min

⁵ Thickness: 4mm