LOTTE ADVANCED MATERIALS

ISO Property | LOTTE Advanced Materials

INFINO	Grade	HN-1064
	Resin Type	PC

Flame Retardant, Miscellaneous

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ISO 1183	Natural or representative color	-	1.18
Melt Flow Index	ISO 1133	250℃, 10kg	g/10min	38
Mold Shrinkage(MD)	ISO 2577	Flow at 3.2mm(MD)	%	0.5~0.7
Mechanical				
Tensile Strength at Yield	ISO 527	50mm/min	MPa	58
Tensile Strain at break	ISO 527	50mm/min	%	100
Tensile Modulus	ISO 527	50mm/min	MPa	2100
Tensile Strength at break	ISO 527	50mm/min	MPa	63
Flexural Strength	ISO 178	2mm/min	MPa	85
Flexural Modulus	ISO 178	2mm/min	MPa	2200
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	KJ/m^2	52
Charpy Impact Strength (V-notched)	ISO 179 1eA	at 23°C, 4mm	KJ/m^2	58
Rockwell Hardness	ISO 2039-2	R-scale	-	119
Thermal				
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	119
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	134
VICAT Softening Temperature	ISO R 306	B/50	°C	140

1. The value above is the representative value of the NP or representative color and may have deviation. It can only be used for selecting materials.
2. The value above shall not be regarded as a material specification and cannot be used for molding designs.

※ The last update date : 05/13/2014

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UL Certification | LOTTE Advanced Materials

INFINO	Grade	HN-1064

iq.ul.com

Component - Plastics [guide info] E115797

Lotte Advanced Materials Co Ltd

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HN-1064(+)

Polycarbonate (PC), "INFINO", furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
ALL	0.75	V-2	4	4	80	80	80
	1.0	V-2	-	-	80	80	80
	1.2	V-1	4	4	80	80	80
	1.5	V-0	3	3	130	130	130
	3.0	V-0	-	-	130	130	130

Comparative Tracking Index (CTI): 3

Inclined Plane Tracking (IPT): -

Dielectric Strength (kV/mm): -

Volume Resistivity (10^x ohm-cm): -

High-Voltage Arc Tracking Rate (HVTR): -

High Volt, Low Current Arc Resis (D495): -

Dimensional Stability (%): -

(+) - May be replaced by one, two, or three numbers and/or letter(s)

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 1998-08-24

Last Revised: 2015-12-10

IEC and ISO Test Methods

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.75	V-2 (ALL)
			1.0	V-2 (ALL)
			1.2	V-1 (ALL)
			1.5	V-0 (ALL)
			3.0	V-0 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	C	1.5	960
			3.0	960
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	C	1.5	825
			3.0	825
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	C	3.0	130
ISO Heat Deflection (1.80 MPa)	ISO 75-2	C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m^2	-	-
ISO Izod Impact	ISO 180	kJ/m^2	-	-
ISO Charpy Impact	ISO 179-2	kJ/m^2	-	-