

ISO Property

INFINO	Grade	HN-3104
	Resin Type	PC/GF

Wiring Devices, Smart Meter, Lasermarkable but the performance could depend on color for automotive

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ISO 1183	Natural or representative color	-	1.28
Melt Flow Index	ISO 1133	250°C, 10kg	g/10min	12.5
Melt Flow Index	ISO 1133	300°C, 1.2kg	g/10min	9.0
Mold Shrinkage(MD)	ISO 294-4	Flow at 2mm(MD)	%	0.3 - 0.6
Mold Shrinkage(TD)	ISO 294-4	X-Flow at 2mm(TD)	%	0.3 - 0.6
ASH content	ISO 3451	-	%	10.5
Mechanical				
Tensile Strength at Yield	ISO 527	5mm/min	MPa	-
Tensile Strain at break	ISO 527	5mm/min	%	6.0
Tensile Modulus	ISO 527	5mm/min	MPa	3500
Tensile Strength at break	ISO 527	5mm/min	MPa	60
Flexural Strength	ISO 178	2mm/min	MPa	90
Flexural Modulus	ISO 178	2mm/min	MPa	3500
Izod Impact Strength(notched)	ISO 180 1A	at 23°C, 4mm	kJ/m ²	10
Charpy Impact Strength(V-notched)	ISO 179 1eA	at 23°C, 4mm	kJ/m ²	10
Rockwell Hardness	ISO 2039-2	R-Scale	-	115
Thermal				
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	137
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	136
VICAT Softening Temperature	ISO 306	B/50	°C	142
Flammability				
Flammability	UL94	HB	mm	0.75

Flammability	UL94	V-1	mm	1.2
Flammability	UL94	V-0	mm	1.5, 2.5, 3.0
Flammability	UL94	5VA	mm	3.0
Flammability	UL94	5VB	mm	2.5
Glow-Wire Flammability Index	IEC 60695-2-12	1.5mm	°C	960
Electric				
Comparative Tracking Index	IEC 60112	-	PLC	3

1. The above figures are the representative values based on NP, which may vary from color to color, and can be used as a reference only for the purpose of selecting materials.
2. The above figures are basic guidelines for selecting materials; therefore, they are not regarded as the official specifications for materials involved, and cannot be used for the purpose of designing a mold.
3. The above values can be adjusted in accordance with processing conditions, and the specific change in value is allowed only within a limited range in which adjustment has no adverse or negative impact on the final product.

Information inserted in this document such as data, statements, representative values, etc. are provided solely for customer convenience. It does not expressly or impliedly guarantee anything regarding the safety or practicability of the (1) materials, (2) products, and/or (3) design that utilizes recommendations or proposals, of LOTTE Chemical. Furthermore, nothing in the contents of this document shall have any legal binding effect, and especially, the representative value is simply for reference and is not a minimum value that has legal binding effect.

Whether materials and/or products of LOTTE Chemical and/or a design that uses or utilizes LOTTE Chemical' recommendations or proposals are (is) compatible with individual uses shall be determined solely by each user and such user shall be solely responsible for any results, including but not limited to, any and all loss and damages incurred due to such uses. Users must implement and verify all testing and analyses for proving the safety and compatibility of final products that have been created or altered by using LOTTE Chemical' materials or products. The data and values inserted and/or contained in this document may be changed due to quality improvement of the product without any prior notification.

※ The last update date : 12/30/2020