LOTTE CHEMICAL

ASTM 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	ASTM D792	Natural or representative color	-	1.28
Melt Flow Index	ASTM D1238	250℃, 10kg	g/10min	12.5
Melt Flow Index	ASTM D1238	300℃, 1.2kg	g/10min	9.0
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.3-0.6
Mold Shrinkage(TD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.3-0.6
ASH content	ASTM D5630	-	%	10.5
Mechanical				
Tensile Strength at Yield	ASTM D638	5mm/min	kgf/㎠	550
Tensile Strain at break	ASTM D638	5mm/min	%	6.0
Tensile Modulus	ASTM D638	5mm/min	kgf/㎠	35000
Tensile Strength at break	ASTM D638	5mm/min	kgf/㎠	550
Flexural Strength	ASTM D790	2.8mm/min	kgf/㎠	1000
Flexural Modulus	ASTM D790	2.8mm/min	kgf/㎠	35000
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23°C	kgf·cm/cm	8
Izod Impact Strength(notched)	ASTM D256	1/8 inch at 23°C	kgf·cm/cm	10
Rockwell Hardness	ASTM D785	R-Scale	-	115
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/㎠, 6.4mm	°C	140
Heat Deflection Temperature	ASTM D648	4.6kgf/㎠, 6.4mm	°C	139
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.

※ The last update date : 01/22/2018