

ASTM Property

INFINO	Grade	HN-3204
	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	-	1.35
Melt Flow Index	ASTM D1238	300℃, 1.2kg	g/10min	9
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.2-0.5
Mold Shrinkage(TD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.2-0.5
ASH content	ASTM D5630	-	%	20
Mechanical				
Tensile Strength at Yield	ASTM D638	5mm/min	kgf/cm ²	850
Tensile Strain at break	ASTM D638	5mm/min	%	4
Tensile Modulus	ASTM D638	5mm/min	kgf/cm ²	55000
Tensile Strength at break	ASTM D638	5mm/min	kgf/cm ²	860
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm ²	1500
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm ²	55000
Izod Impact Strength(notched)	ASTM D256	1/8 inch at 23℃	kgf·cm/cm	7
Rockwell Hardness	ASTM D785	R-Scale	-	119
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm ² , 6.4mm	℃	138
Heat Deflection Temperature	ASTM D648	4.6kgf/cm ² , 6.4mm	℃	143
Flammability				
Flammability	UL94	V-0	mm	1.5 - 3.0
Flammability	UL94	5VA	mm	2.5
Glow-Wire Flammability Index	IEC 60695-2-12	1.5, 3.0mm	℃	960
Glow-Wire Ignition Index	IEC 60695-2-13	1.5mm	℃	825
UV light exposure/water immersion	UL 746C	-	-	f1

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.

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※ The last update date : 12/10/2018