

ISO Property

INFINO	Grade	HN-3104
	Resin Type	PC/GF

Wiring Devices, Smart Meter - UV resistance : dE < 1.0 for Light Grey color [UV-A (350nm), 0.68W/m², 60°C, 8hrs -> Darkness, 50°C, 4hrs, 6cycle]

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	60
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 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.

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※ The last update date : 01/22/2018