



<b>INFINO</b>	Grade	HP-1000XG
	Resin Type	PC/ABS

Automotive

Item	Measuring Method	Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ASTM D792	Natural or representative color	-	1.15
흡수율	ASTM D570	23°C	%	0.1
Melt Flow Index	ASTM D1238	250°C, 10kg	g/10min	37
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.35~0.65
Mold Shrinkage(MD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.35~0.65
<b>Mechanical</b>				
Tensile Strength at Yield	ASTM D638	50mm/min	kgf/cm <sup>2</sup>	650
Tensile Strain at break	ASTM D638	50mm/min	%	100
Tensile Modulus	ASTM D638	50mm/min	kgf/cm <sup>2</sup>	23000
Tensile Strength at break	ASTM D638	50mm/min	kgf/cm <sup>2</sup>	670
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	900
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	24000
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23°C	kgf-cm/cm	15
Izod Impact Strength(notched)	ASTM D256	1/8 inch at 23°C	kgf-cm/cm	55
Izod Impact Strength(notched)	ASTM D256	1/4 inch at -30°C	kgf-cm/cm	12
Izod Impact Strength(notched)	ASTM D256	1/8 inch at -30°C	kgf-cm/cm	13
Rockwell Hardness	ASTM D785	R-Scale	-	120

## Thermal

Heat Deflection Temperature	ASTM D648	18.56kgf/cm <sup>2</sup> , 6.4mm	°C	115
Heat Deflection Temperature	ASTM D648	4.6kgf/cm <sup>2</sup> , 6.4mm	°C	129
VICAT Softening Temperature	ISO 306	B/50	°C	130
Linear Thermal Coefficient	ASTM E831	Flow at 40~100°C	x10 <sup>-5</sup> cm/cm/°C	7.4
Linear Thermal Coefficient	ASTM E831	X-Flow at 40~100°C	x10 <sup>-5</sup> cm/cm/°C	8

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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