

## ASTM Property

<b>INFINO</b>	Grade	SC-1100UR
	Resin Type	PC

Weatherability, Automotive, UV Stabilized

Item	Measuring Method	Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ASTM D792	Natural or representative color	-	1.2
Melt Flow Index	ASTM D1238	300°C, 1.2kg	g/10min	11.5
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.5~0.7
Mold Shrinkage(TD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.5~0.7
<b>Mechanical</b>				
Tensile Strength at Yield	ASTM D638	50mm/min	kgf/cm <sup>2</sup>	640
Tensile Strain at break	ASTM D638	50mm/min	%	110
Tensile Modulus	ASTM D638	50mm/min	kgf/cm <sup>2</sup>	20000
Tensile Strength at break	ASTM D638	50mm/min	kgf/cm <sup>2</sup>	650
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	920
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	23000
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	87
Rockwell Hardness	ASTM D785	R-Scale	-	120
<b>Thermal</b>				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm <sup>2</sup> , 6.4mm	°C	135
Heat Deflection Temperature	ASTM D648	4.6kgf/cm <sup>2</sup> , 6.4mm	°C	140
VICAT Softening Temperature	ISO 306	B/50	°C	145
<b>Flammability</b>				
Flammability	UL94	V-2	mm	0.75 - 3.0

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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