

## ISO Property | LOTTE Advanced Materials

<b>INFINO</b>	Grade	SC-1280UR
	Resin Type	PC Poly

UV Resistant PC

Item	Measuring Method	Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ISO 1183	Natural or representative color	-	1.2
Melt Flow Index	ISO 1133	300°C, 1.2kg	g/10min	28
Mold Shrinkage(MD)	ISO 2577	Flow at 2mm(MD)	%	0.5~0.7
Mold Shrinkage(TD)	ISO 2577	X-Flow at 2mm(TD)	%	0.5~0.7
<b>Mechanical</b>				
Tensile Strength at Yield	ISO 527	50mm/min	MPa	64
Tensile Strain at break	ISO 527	50mm/min	%	6.5
Tensile Modulus	ISO 527	50mm/min	MPa	1800
Tensile Strength at break	ISO 527	50mm/min	MPa	53
Flexural Strength	ISO 178	2mm/min	MPa	90
Flexural Modulus	ISO 178	2mm/min	MPa	2300
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	KJ/m <sup>2</sup>	60
Charpy Impact Strength (V-notched)	ISO 179 1eA	at 23°C, 4mm	KJ/m <sup>2</sup>	50
Rockwell Hardness	ISO 2039-2	R-scale	-	120
<b>Thermal</b>				
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	122
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	134
VICAT Softening Temperature	ISO R 306	B/50	°C	144
<b>Flammability</b>				
Flammability	UL94	V-2	mm	0.8~3.2

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.

Information inserted in this document such as data, statements, representative values, etc. are provided solely for customer convenience. It does not expressly or impliedly guarantee anything regarding the safety or practicability of the (1) materials, (2) products, and/or (3) design that utilizes recommendations or proposals, of LOTTE Advanced Materials. Furthermore, nothing in the contents of this document shall have any legal binding effect, and especially, the representative value is simply for reference and is not a minimum value that has legal binding effect.

Whether materials and/or products of LOTTE Advanced Materials and/or a design that uses or utilizes LOTTE Advanced Materials' recommendations or proposals are (is) compatible with individual uses shall be determined solely by each user and such user shall be solely responsible for any results, including but not limited to, any and all loss and damages incurred due to such uses. Users must implement and verify all testing and analyses for proving the safety and compatibility of final products that have been created or altered by using LOTTE Advanced Materials' materials or products. The data and values inserted and/or contained in this document may be changed due to quality improvement of the product without any prior notification.

※ The last update date : 04/26/2017