

## ISO Property | LOTTE Advanced Materials

starex <sup>®</sup>	Grade	WR-9330I
	Resin Type	ASA

Weatherability, Heat Resistance, B&C, Pipe, Trim

Item	Measuring Method	Condition	Unit	Value
<b>Physical</b>				
Specific Gravity	ISO 1183	Natural or representative color	-	1.07
Melt Flow Index	ISO 1133	220°C, 10kg	g/10min	5
Mold Shrinkage(MD)	ISO 294-4	Flow at 2mm(MD)	%	0.4~0.7
Mold Shrinkage(TD)	ISO 294-4	X-Flow at 2mm(TD)	%	0.4~0.7
<b>Mechanical</b>				
Tensile Strength at Yield	ISO 527	50mm/min	MPa	52
Tensile Strain at break	ISO 527	50mm/min	%	11
Tensile Modulus	ISO 527	50mm/min	MPa	2400
Tensile Strength at Break	ISO 527	50mm/min	MPa	-
Flexural Strength	ISO 178	2mm/min	MPa	80
Flexural Modulus	ISO 178	2mm/min	MPa	2400
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	KJ/m <sup>2</sup>	9
Charpy Impact Strength (V-notched)	ISO 179 1eA	at 23°C, 4mm	KJ/m <sup>2</sup>	10
Rockwell Hardness	ISO 2039-2	R-scale	-	108
<b>Thermal</b>				
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	82
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	97
Heat Deflection Temperature(Annealing)	ISO 75-2	1.8MPa, 4.0mm	°C	103
Heat Deflection Temperature(Annealing)	ISO 75-2	0.45MPa, 4.0mm	°C	107
VICAT Softening Temperature	ISO 306	B/50	°C	104

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 : 12/01/2017

[CONVERT TO PDF](#)



To print the image properly, you need to set your print options on your Internet Explorer browser as follows.  
 [Menu > Tools > Internet Options] ▶ [Advanced > Printing > Check "Print background colors and images"]

CLOSE X