

ASTM Property

INFINO.	Grade	ML-1020R
	Resine Type	PC

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural color	-	1.2
Melt Flow Index	ASTM D1238	300°C/1.2kg	g/10min	22
Water Absorption	ASTM D570	23°C	%	0.2
Mold Shrinkage	ASTM D955	Flow at 3.2mm	%	0.5~0.7
Mechanical				
Tensile Strength	ASTM D638	50mm/min	kgf/cm ²	640
Elongation at Break	ASTM D638	50mm/min	%	90
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm ²	920
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm ²	23,000
Impact Strength, Notched	ASTM D256	at 23°C, 1/8 inch	kgf-cm/cm	75
Rockwell Hardness	ASTM D785	R-Scale	-	120
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm ² , 6.4mm	°C	130
VICAT Softening Temperature	ASTM D1525	Vicat B test / 50N	°C	145
Linear Thermal Coefficient		-40~100°C	10 ⁻⁵ cm/cm/°C	5.5~6.5
Flammability				
Flammability	UL 94	V-2	mm	0.75~3.2
Optical				
Transmissivity	ASTM D1003	3.2mm	%	>89
Haze	ASTM D1003	3.2mm	%	<0.3
Refractive Index	ASTM D542			1.586

1. The value above is the representative value of the NP standard 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 Advandec 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 Advandec Materials and/or a design that uses or utilizes Lotte Advandec 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 Advandec Materials 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.

□ Last update date (YY/MM/DD): 17/02/13