LOTTE CHEMICAL

ASTM Property

INFINO	Grade	NH-1035
	Resin Type	PC

OA Machine

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural or representative color	-	1.2
Melt Flow Index	ASTM D1238	250℃, 10kg	g/10min	35
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.4-0.7
Mold Shrinkage(TD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.4-0.7
Mechanical				
Tensile Strength at Yield	ASTM D638	50mm/min	kgf/㎠	600
Tensile Strain at break	ASTM D638	50mm/min	%	40
Tensile Modulus	ASTM D638	50mm/min	kgf/㎠	22000
Tensile Strength at break	ASTM D638	50mm/min	kgf/㎠	570
Flexural Strength	ASTM D790	2.8mm/min	kgf/㎠	900
Flexural Modulus	ASTM D790	2.8mm/min	kgf/㎠	25000
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	70
Rockwell Hardness	ASTM D785	R-Scale	-	120
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/㎠, 6.4mm	°C	113
VICAT Softening Temperature	ISO 306	B/50	°C	127
VICAT Softening Temperature	ISO 306	B/120	°C	129
Flammability				
Flammability	UL94	V-0	mm	1.5, 2.0-2.7
Flammability	UL94	5VB	mm	2.0-2.7

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.

※ The last update date : 09/19/2017