DATASHEET COMPARISON

ASTM Property

LOTTE CHEMICAL

INFINO		
	Grade	SC-1060U
	Resin Type	PC Poly

Sheet, UV stabilized

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural or representative color	-	1.2
Melt Flow Index	ASTM D1238	300°C, 1.2kg	g/10min	6.0
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.5~0.7
Mold Shrinkage(MD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.5~0.7
Mechanical				
Tensile Strength at Yield	ASTM D638	50mm/min	kgf/cm^2	660
Tensile Strain at break	ASTM D638	50mm/min	%	110
Tensile Modulus	ASTM D638	50mm/min	kgf/cm^2	23000
Tensile Strength at break	ASTM D638	50mm/min	kgf/cm^2	660
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm^2	930
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm^2	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	90
Rockwell Hardness	ASTM D785	R-Scale	-	120
Thermal				
Heat Deflection Temperature	ASTM D648	$18.56kgf/cm^2$, 6.4mm	°C	128
Heat Deflection Temperature	ASTM D648	$4.6kgf/cm^2$, 6.4mm	°C	138
VICAT Softening Temperature	ISO 306	B/50	°C	147

Flammability				
Flammability	UL94	HB	mm	2.6~3.2
Flammability	UL94	V-2	mm	1.6~2.0

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 : 2020/11/11