DATASHEET COMPARISON

ASTM Property

LOTTE CHEMICAL

INFINO		
	Grade	SA-1100
	Resin Type	PC

Switch, Breakers

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural or representative color	-	1.2
Melt Flow Index	ASTM D1238	300℃, 1.2kg	g/10min	9
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.4-0.7
Mold Shrinkage(MD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.4-0.7
Mechanical				
Tensile Strength at Yield	ASTM D638	50mm/min	kgf/cm^2	650
Tensile Strain at break	ASTM D638	50mm/min	%	91
Tensile Modulus	ASTM D638	50mm/min	kgf/cm^2	20500
Tensile Strength at break	ASTM D638	50mm/min	kgf/cm^2	670
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm^2	980
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm^2	23000
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23℃	kgf·cm/cm	20
Izod Impact Strength(notched)	ASTM D256	1/8 inch at 23℃	kgf·cm/cm	70
Rockwell Hardness	ASTM D785	R-Scale	-	120
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm^2, 6.4mm	℃	127
VICAT Softening Temperature	ISO 306	B/50	℃	142
Flammability				
Flammability	UL94	V-2	mm	0.75, 1.5, 2.0, 2.5, 3.0

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 : 2019/11/12