DATASHEET COMPARISON

ISO Property

LOTTE CHEMICAL

INFINO		
	Grade	SC-1220R
	Resin Type	PC

E&E, Consumer Product

Item	Measuning Method	Condition	Unit	Value
Physical				
Specific Gravity	ISO 1183	Natural or representative	-	1.2
Melt Flow Index	ISO 1133	300℃, 1.2kg	g/10min	22.0
Mold Shrinkage(MD)	ISO 294-4	Flow at 2mm(MD)	%	0.5~0.7
Mold Shrinkage(TD)	ISO 294-4	X-Flow at 2mm(TD)	%	0.5~0.7
Mold Shrinkage(MD)	ISO 2577	Flow at 3.2mm(MD)	%	0.5~0.7
Mold Shrinkage(TD)	ISO 2577	X-Flow at 3.2mm(TD)	%	0.5~0.7
Mechanical				
Tensile Strength at Yield	ISO 527	50mm/min	MPa	64
Tensile Strain at break	ISO 527	50mm/min	%	110
Tensile Modulus	ISO 527	50mm/min	MPa	2300
Tensile Strength at Break	ISO 527	50mm/min	MPa	64
Flexural Strength	ISO 178	2mm/min	MPa	92
Flexural Modulus	ISO 178	2mm/min	MPa	2300
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	kJ/m^2	65
Charpy Impact Strength (V-notched)	ISO 179 1eA	at 23°C, 4mm	kJ/m^2	60
Rockwell Hardness	ISO 2039-2	R-scale	-	120

Thermal properties				
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	123
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	136
VICAT Softening Temperature	ISO 306	B/50	°C	145

Flame-retarded				
Flammability	UL94	V-2	mm	0.75~3.2

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