DATASHEET COMPARISON

ISO Property

LOTTE CHEMICAL

starex		
	Grade	VP-6020NH
	Resin Type	PP

Item	Measuning Method	Condition	Unit	Value
Physical				
Specific Gravity	ISO 1183	Natural or representative	-	1.01
Melt Flow Index	ISO 1133	230°C, 2.16kg	g/10min	11
Mold Shrinkage(MD)	ISO 294-4	Flow at 2mm(MD)	%	1.0-1.3
Mold Shrinkage(TD)	ISO 294-4	X-Flow at 2mm(TD)	%	1.1-1.4
Mechanical				
Tensile Strength at Yield	ISO 527	50mm/min	MPa	20
Tensile Strain at break	ISO 527	50mm/min	%	-
Tensile Modulus	ISO 527	50mm/min	MPa	-
Tensile Strength at Break	ISO 527	50mm/min	MPa	-
Flexural Strength	ISO 178	2mm/min	MPa	30
Flexural Modulus	ISO 178	2mm/min	MPa	1500
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	kJ/m^2	-
Charpy Impact Strength (V-notched)	ISO 179 1eA	at 23°C, 4mm	kJ/m^2	4.0
Rockwell Hardness	ISO 2039-2	R-scale	-	-
Thermal properties				
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	-
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	120
VICAT Softening Temperature	ISO 306	A/50	°C	150

Flame-retarded				
Flammability	UL94	V-0	mm	1.5-3.0
Flammability	UL94	5VA	mm	1.5-3.0
Flammability	UL94	5VB	mm	1.5-3.0

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
: 2022/03/25