

ISO Property

starex[®]

Grade NH-1904

Resin Type HIPS

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ISO 1183	Natural or representative color	-	1.11
Melt Flow Index	ISO 1133	220 °C, 10kg	g/10min	44
Mold Shrinkage(MD)	ISO 2577	Flow at 3.2mm(MD)	%	0.4~0.7
Mechanical				
Tensile Strength at Yield	ISO 527	5mm/min	MPa	45
Tensile Strain at break	ISO 527	5mm/min	%	15
Tensile Modulus	ISO 527	5mm/min	MPa	2300
Tensile Strength at break	ISO 527	5mm/min	MPa	44
Flexural Strength	ISO 178	2mm/min	MPa	68
Flexural Modulus	ISO 178	2mm/min	MPa	2700
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	KJ/m ²	7
Charpy Impact Strength (V-notched)	ISO 179 1eA	at 23°C, 4mm	KJ/m ²	7
Thermal				
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	72
VICAT Softening Temperature	ISO R 306	B/50	°C	94
Flammability				
Flammability	UL94	V-1	mm	1.5
Flammability	UL94	V-0	mm	2.5

1. The value above is the representative value of the NP or representative color and may have deviation. It can only be used for selecting materials.
2. The value above shall not be regarded as a material specification and cannot be used for molding designs.

Information inserted in this document such as data, statements, representative values, etc. are provided solely for customer convenience. It does not expressly or impliedly guarantee anything regarding the safety or practicability of the (1) materials, (2) products, and/or (3) design that utilizes recommendations or proposals, of Samsung SDI Chemical. Furthermore, nothing in the contents of this document shall have any legal binding effect, and especially, the representative value is simply for reference and is not a minimum value that has legal binding effect.

Whether materials and/or products of Samsung SDI Chemical and/or a design that uses or utilizes Samsung SDI Chemical's recommendations or proposals are (is) compatible with individual uses shall be determined solely by each user and such user shall be solely responsible for any results, including but not limited to, any and all loss and damages incurred due to such uses. Users must implement and verify all testing and analyses for proving the safety and compatibility of final products that have been created or altered by using Samsung SDI Chemical's materials or products. The data and values inserted and/or contained in this document may be changed due to quality improvement of the product without any prior notification.

※ The last update date : 05/13/2014