

## ISO Property

 Storex\*
 Grade
 GR-4010

 Resin Type
 ABS/GF

Material with 10% GF reinforcement and the characteristic of high elasticity and high stiffness that can be applied to refrigerator vegetable

Item	Measuring Method	Condition	Unit	Value
		Physical		
Specific Gravity	ISO 1183	Natural or representative color	-	1.15
Melt Flow Index	ISO 1133	220℃, 10kg	g/10min	7.8
ASH Content	ISO 3451	-	%	9.7
		Mechanical		
Tensile Strength at Yield	ISO 527	50mm/min	MPa	78
Tensile Strain at break	ISO 527	50mm/min	%	3.3
Tensile Modulus	ISO 527	50mm/min	MPa	3800
Tensile Strength at break	ISO 527	50mm/min	MPa	78
Flexural Strength	ISO 178	2mm/min	MPa	110
Flexural Modulus	ISO 178	2mm/min	MPa	4100
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	KJ/m <sup>2</sup>	10
Charpy Impact Strength (V- notched)	ISO 179 1eA	at 23°C, 4mm	KJ/m <sup>2</sup>	11
Rockwell Hardness	ISO 2039-2	R-scale	-	114
		Thermal		
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	99
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	106
VICAT Softening Temperature	ISO R 306	B/50	°C	106
VICAT Softening Temperature	ISO R 306	B/120	°C	108
		Flammability		
Fla mma bility	UL94	НВ	mm	1.5,3.0,6.0

<sup>1.</sup> 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.

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.

<sup>2.</sup> The value above shall not be regarded as a material specification and cannot be used for molding designs.

<sup>\*</sup> The last update date: 05/13/2014