

ASTM Property

starex	Grade	SR-0320 K
	Resin Type	ABS

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural or representative color	-	1.06
Water Absorption	ASTM D570	23°C	%	0.3
Melt Flow Index	ASTM D1238	220 °C, 10kg	g/10min	9
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.3-0.6
Mold Shrinkage(TD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.3-0.6
Mechanical				
Tensile Strength at Yield	ASTM D638	5mm/min	kgf/cm ²	420
Tensile Strain at break	ASTM D638	5mm/min	%	35
Tensile Modulus	ASTM D638	5mm/min	kgf/cm ²	-
Tensile Strength at break	ASTM D638	5mm/min	kgf/cm ²	-
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm ²	650
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm ²	22000
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23°C	kgf·cm/cm	19
Rockwell Hardness	ASTM D785	R-Scale	-	110
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm ² , 6.4mm	°C	94
Heat Deflection Temperature	ASTM D648	4.6kgf/cm ² , 6.4mm	°C	-
VICAT Softening Temperature	ISO R 306	B/50	°C	106
VICAT Softening Temperature	ISO R 306	B/120	°C	109

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 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 SDI Chemical and/or a design that uses or utilizes 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 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 : 01/19/2016