

## ASTM Property

starex	Grade	SR-0320 K
	Resin Type	ABS

Heat Resistance, E&E, Automotive

Item	Measuring Method	Condition	Unit	Value
<b>Physical</b>				
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
<b>Mechanical</b>				
Tensile Strength at Yield	ASTM D638	5mm/min	kgf/cm <sup>2</sup>	420
Tensile Strain at break	ASTM D638	5mm/min	%	35
Tensile Modulus	ASTM D638	5mm/min	kgf/cm <sup>2</sup>	-
Tensile Strength at break	ASTM D638	5mm/min	kgf/cm <sup>2</sup>	-
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	650
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	22000
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23°C	kgf·cm/cm	19
Rockwell Hardness	ASTM D785	R-Scale	-	110
<b>Thermal</b>				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm <sup>2</sup> , 6.4mm	°C	94
Heat Deflection Temperature	ASTM D648	4.6kgf/cm <sup>2</sup> , 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.

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