

## ASTM Property

starex <sup>®</sup>	Grade	PT-0180 H
	Resin Type	ABS

Automotive

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural or representative color	-	1.04
Melt Flow Index	ASTM D1238	200°C, 5kg	g/10min	2.3
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 <sup>2</sup>	380
Tensile Strain at break	ASTM D638	5mm/min	%	-
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>	600
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm <sup>2</sup>	20000
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23°C	kgf-cm/cm	33
Rockwell Hardness	ASTM D785	R-Scale	-	105
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm <sup>2</sup> , 6.4mm	°C	84
Heat Deflection Temperature	ASTM D648	4.6kgf/cm <sup>2</sup> , 6.4mm	°C	-
VICAT Softening Temperature	ISO 306	B/50	°C	97
VICAT Softening Temperature	ISO 306	B/120	°C	-
Flammability				
Flammability	UL94	HB	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.

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