

ASTM Property

starex®	Grade	PT-0170 M
	Resin Type	ABS

Automotive

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural or representative color	-	1.05
Melt Flow Index	ASTM D1238	200°C, 5kg	g/10min	1.4
Melt Flow Index	ASTM D1238	220°C, 10kg	g/10min	18
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.5~0.6
Mold Shrinkage(TD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.5~0.7
Mechanical				
Tensile Strength at Yield	ASTM D638	5mm/min	kgf/cm ²	440
Tensile Strain at break	ASTM D638	5mm/min	%	14
Tensile Modulus	ASTM D638	5mm/min	kgf/cm ²	23000
Tensile Strength at break	ASTM D638	5mm/min	kgf/cm ²	130
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm ²	610
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm ²	20000
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23°C	kgf·cm/cm	29
Izod Impact Strength(notched)	ASTM D256	1/8 inch at 23°C	kgf·cm/cm	47
Izod Impact Strength(notched)	ASTM D256	1/4 inch at -30°C	kgf·cm/cm	8
Izod Impact Strength(notched)	ASTM D256	1/8 inch at -30°C	kgf·cm/cm	9
Rockwell Hardness	ASTM D785	R-Scale	-	111
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm ² , 6.4mm	°C	88
Heat Deflection Temperature	ASTM D648	4.6kgf/cm ² , 6.4mm	°C	95
VICAT Softening Temperature	ISO 306	B/50	°C	97
VICAT Softening Temperature	ISO 306	B/120	°C	101

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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