

DATASHEET COMPARISON

ASTM Property


ASTM Property

ISO Property



starex®	Grade	SG-0790 T		
	Resin Type	ABS		

Toy

Item	Measuring Method	Condition	Unit	Value
Physical				
Specific Gravity	ASTM D792	Natural or representative color	-	1.04
Melt Flow Index	ASTM D1238	200l, 5kg	g/10min	5.5
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.38~0.47
Mold Shrinkage(MD)	ASTM D955	X-Flow at 3.2mm(TD)	%	0.40~0.49
Mechanical				
Tensile Strength at Yield	ASTM D638	5mm/min	kgf/cm ²	420
Tensile Strain at break	ASTM D638	5mm/min	%	100
Tensile Modulus	ASTM D638	5mm/min	kgf/cm ²	19300
Tensile Strength at break	ASTM D638	5mm/min	kgf/cm ²	350
Flexural Strength	ASTM D790	2.8mm/min	kgf/cm ²	500
Flexural Modulus	ASTM D790	2.8mm/min	kgf/cm ²	15000
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23°C	kgf-cm/cm	26
Izod Impact Strength(notched)	ASTM D256	1/8 inch at 23°C	kgf-cm/cm	30
Rockwell Hardness	ASTM D785	R-Scale	-	110
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm ² , 6.4mm	°C	79
VICAT Softening Temperature	ISO 306	B/50	°C	97
Flammability				
Flammability	UL94	HB	mm	1.5,3.0,6.0

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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