

ASTM Property

Grade	SD-0150
Resin Type	ABS

Home Appliances

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 220°C, 10kg 230°C, 3.8kg	g/10min	1.8 20.0 5.0
Mold Shrinkage(MD)	ASTM D955	Flow at 3.2mm(MD)	%	0.3-0.6
Gloss	ASTM D523	-	%	96
Mechanical				
Tensile Strength at Yield	ASTM D638	5mm/min	kgf/cm ²	420
Tensile Strain at break	ASTM D638	1mm/min	%	39
Tensile Modulus	ASTM D638	1mm/min	kgf/cm ²	22000
Tensile Strength at break	ASTM D638	1mm/min	kgf/cm ²	420
Flexural Strength	ASTM D790	2.8mm/min	MPa (psi)	68 (9,700)
Flexural Modulus	ASTM D790	2.8mm/min	MPa (psi)	2,2100 (314,000)
Izod Impact Strength(notched)	ASTM D256	1/4 inch at 23°C	kg·cm/cm	22
Izod Impact Strength(notched)	ASTM D256	1/8 inch at 23°C	kg·cm/cm	30
Rockwell Hardness	ASTM D785	R-Scale	-	105
Thermal				
Heat Deflection Temperature	ASTM D648	18.56kgf/cm ² , 6.4mm	°C	87
Heat Deflection Temperature	ASTM D648	4.6kgf/cm ² , 6.4mm	°C	97
VICAT Softening Temperature	ASTM D648	5Kg/cm ² 1Kg/cm ²	°C	98 107

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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※ The last update date : 09/28/2017