

ISO Property

STOREX*

Grade VE-1897

Resin Type HIPS

Flame-retardant HIPS with superior high impact and high flow that is used for TV exterior material

Item	Measuring Method	Condition	Unit	Value
		Physical		
Specific Gravity	ISO 1183	Natural or representative color	-	1.15
Melt Flow Index	ISO 1133	200℃, 5kg	g/10min	16
Mold Shrinkage(MD)	ISO 2577	Flow at 3.2mm(MD)	%	0.3-0.4
		Mechanical		
Tensile Strength at Yield	ISO 527	50mm/min	MPa	23
Tensile Strain at break	ISO 527	50mm/min	%	35
Tensile Modulus	ISO 527	50mm/min	MPa	2090
Tensile Strength at break	ISO 527	50mm/min	MPa	22
Flexural Strength	ISO 178	2mm/min	MPa	37
Flexural Modulus	ISO 178	2mm/min	MPa	1600
Izod Impact Strength (notched)	ISO 180 1A	at 23°C, 4mm	KJ/m ²	11
Charpy Impact Strength (V- notched)	ISO 179 1eA	at 23°C, 4mm	KJ/m ²	11.5
Rockwell Hardness	ISO 2039-2	R-scale	-	98
		Thermal		
Heat Deflection Temperature(Unannealed)	ISO 75-2	1.8MPa, 4.0mm	°C	70
Heat Deflection Temperature(Unannealed)	ISO 75-2	0.45MPa, 4.0mm	°C	81
Heat Deflection Temperature(Annealing)	ISO 75-2	1.8MPa, 4.0mm	°C	79
Heat Deflection Temperature(Annealing)	ISO 75-2	0.45MPa, 4.0mm	°C	84
VICAT Softening Temperature	ISO R 306	B/50	°C	81
VICAT Softening Temperature	ISO R 306	B/120	°C	85
		Flammability		
Fla mma bility	UL94	V-0	mm	1.5,3.0

^{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.

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^{*} The last update date: 05/13/2014