

Typical value for Solarene[®]

Grade : Solarene[®] HIPS, H-645

Test items	Unit	Test Method	Test Condition	Typical Value
Mechanical Properties				
Tensile Stress at yield	kgf/cm ² [MPa]	ASTM D 638	-	250 [25]
Elongation	%	ASTM D 638	-	75
Flexural Strength	kgf/cm ² [MPa]	ASTM D 790	-	430 [42]
Flexural Modulus	kgf/cm ² [MPa]	ASTM D 790	-	22,000 [2,157]
Izod Impact Strength	kgf-cm/cm [J/m]	ASTM D 256	3.2mm Notched	11.5 [112.8]
Rockwell Hardness	-	ASTM D 785	L-Scale	68
Rheological Properties				
Melt Flow Index	g/10 min	ASTM D 1238	200°C/5kg	7.0
Thermal Properties				
Vicat Softening Temp.	°C	ASTM D 1525	A/50	94
Heat Distortion Temp.	°C	ASTM D 648	18.6kgf/cm ² , 6.4mm	74
Mold Shrinkage	%	ASTM D 955	-	0.4~0.7
Physical Properties				
Specific Gravity	-	ASTM D 792	-	1.04
Water Absorption	%	ASTM D 570	-	0.05
Burning Properties				
Flammability	class	UL 94	-	HB

* The above values are only the representatives of natural color specimen.

* The listed values should be used for referential purposed only.

* Last update : Jun. 17, 2010