

## Typical value for Solarene<sup>®</sup>

### Grade : Solarene<sup>®</sup> GPPS, G-144

Test items	Unit	Test Method	Test Condition	Typical Value
<b>Mechanical Properties</b>				
Tensile Stress at yield	kgf/cm <sup>2</sup> [MPa]	ASTM D 638	-	480 [47]
Elongation	%	ASTM D 638	-	3
Flexural Strength	kgf/cm <sup>2</sup> [MPa]	ASTM D 790	-	800 [78]
Flexural Modulus	kgf/cm <sup>2</sup> [MPa]	ASTM D 790	-	31,000 [3,040]
Izod Impact Strength	kgf-cm/cm [J/m]	ASTM D 256	3.2mm Notched	1.7 [16.7]
Rockwell Hardness	-	ASTM D 785	L-Scale	100
<b>Rheological Properties</b>				
Melt Flow Index	g/10 min	ASTM D 1238	200°C/5kg	8.5
<b>Thermal Properties</b>				
Vicat Softening Temp.	°C	ASTM D 1525	A/50	96
Heat Distortion Temp.	°C	ASTM D 648	18.6kgf/cm <sup>2</sup> , 6.4mm	79
Mold Shrinkage	%	ASTM D 955	-	0.4~0.7
<b>Physical Properties</b>				
Specific Gravity	-	ASTM D 792	-	1.04
Water Absorption	%	ASTM D 570	-	0.03
<b>Burning Properties</b>				
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