

# HDC HYUNDAI ENGINEERING PLASTICS

## Typical value for Solarene®

### Grade : Solarene® HIPS, H-724

| 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  | -              | 250 [25]       |
| Elongation                    | %                         | ASTM D 638  | -              | 70             |
| Flexural Strength             | kgf/cm <sup>2</sup> [MPa] | ASTM D 790  | -              | 420 [41]       |
| Flexural Modulus              | kgf/cm <sup>2</sup> [MPa] | ASTM D 790  | -              | 21,000 [2,059] |
| IZOD Impact Strength          | kgf·cm/cm [J/m]           | ASTM D 256  | 3.2mm Notched  | 13.5 [132.4]   |
| Rockwell Hardness             | -                         | ASTM D 785  | L-Scale        | 60             |
| <b>Rheological Properties</b> |                           |             |                |                |
| Melt Flow Index               | g/10 min                  | ASTM D 1238 | 200°C/5kg      | 5.0            |
| <b>Thermal Properties</b>     |                           |             |                |                |
| Vicat Softening Temp.         | °C                        | ASTM D 1525 | A/50           | 96             |
| 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.