

PS

GP I25EB

**Classification** GPPS

**Characteristics** High Strength PSP

**Applications** PSP (Tray Cup)

| Test Item             | ASTM  | Test Condition                                 | Unit                     | Typical Property |
|-----------------------|-------|--|--------------------------|------------------|
| Tensile Strength      | D638  | 23℃  | kg/cm <sup>2</sup> (psi) | 480(6,816)       |
| Elongation            | D638  | 50mm/min                                       | %                        | 2.0              |
| Flexural Strength     | D790  | 23℃  | kg/cm <sup>2</sup> (psi) | 680 (9.656)      |
| Flexural Modulus      | D790  | 23℃  | kg/cm <sup>2</sup> (psi) | 30,000 (426,000) |
| Rockwell Hardness     | D785  | M scale  | —                        | 74               |
| IZOD Impact Strength  | D256  | 3.2mm, Notched,<br>23℃(73°F)                   | kg·cm/cm<br>(ft·lb/in)   | 1.5 (0.28)       |
| Heat Distortion Temp. | D648  | 18.6kg/cm <sup>2</sup> (264psi),<br>unannealed | ℃ (°F)                   | 85 (185)         |
| Vicat Softening Temp. | D1525 | —  | ℃ (°F)                   | 102 (217)        |
| Melt Flow Index       | D1238 | 200℃, 5.0kg                                    | g/10min                  | 6.5              |
| Mold Shrinkage        | D955  |  | %                        | 0.3~0.6          |
| Specific Gravity      | D792  |  | g/cc                     | 1.04             |
| Water Absorbtion      | D570  | 24hr, Immersion in water                       | %                        | 0.03             |
| Flammability          | UL*   | 1/16" (1.6mm)                                  | Rating                   | HB               |

\*) UL File No.E65424 (CSA File No. LS66457)

Note1) These are typical property values, not specification.

Note2) In case of colored products, the values could slightly differ by color.

Note3) Values are measured at 23℃ and in RH of 50% on injection molded specimens.