

## Property Data Sheet

### PSFC-GP535A (POLYSTYRENE General Purpose RESIN)

| SR NO | Property                    | Unit                                      | Test Method              | Test Condition                    | DATA           |
|-------|-----------------------------|---|--------------------------|-----------------------------------|----------------|
| 1     | TENSILE STRENGTH            | Kg/cm <sup>2</sup> (MPa)                  | ASTM D-638<br>(IS0527)   | 23°C                              | 450<br>(44)    |
| 2     | TENSILE ELONGATION          | %   | ASTM D-638<br>(IS0527)   | 23°C                              | 2.2            |
| 3     | FLEXURAL STRENGTH           | Kg/cm <sup>2</sup> (MPa)                  | ASTM D-790<br>(IS0178)   | 23°C                              | 900<br>(88)    |
| 4     | FLEXURAL MODULUS            | Kg/cm <sup>2</sup> *10 <sup>4</sup> (MPa) | ASTM D-790<br>(IS0178)   | 23°C                              | 3.4<br>(3330)  |
| 5     | IZOD IMPACT STRENGTH        | Kg-cm/cm(J/m)                             | ASTM D-256<br>(ISO R180) | 23°C<br>1/4" THICK                | 1.9<br>(19)    |
| 6     | VICAT SOFTENING TEMPERATURE | °C  | ASTM D-1525<br>(IS0306B) | Annealed<br>80°C x 2Hr 1/8" THICK | 95             |
| 7     | HEAT DEFLECTION TEMPERATURE | °C  | ASTM D-648<br>(ISO 75/A) | Annealed<br>80°C x 2Hr 1/8" THICK | 91             |
| 8     | MELT FLOW INDEX             | g/10 min                                  | ASTM D-1238<br>(IS01133) | 200°C x 5Kg<br>(49N)              | 4.3            |
| 9     | RESIDUAL MONOMER            | ppm max.                                  |                          |                                   | 700            |
| 10    | MOLDING SHRINKAGE           | %   |                          | 23°C                              | 0.3-0.5        |
| 11    | SPECIFIC GRAVITY            |   | ASTM D-792<br>(IS01183)  | 23°C/23°C                         | 1.04           |
| 12    | FLAMMABILITY                |   | UL-94                    | FILE NO.<br>E162823               | 1/16" HB<br>NC |

Characteristics: High heat ◦

Application : CD , lamp covers , decorated sheets ◦