



## (General Purpose Polystyrene) GPPS 861N / B

| Characteristics                                                                                                                                                                                                                                                                            | Applications                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>● Injection Grade</li> <li>● The most state of the art form US NOVA CHEMICAL</li> <li>● Low Residual Monomer</li> <li>● Good Heat Resistance</li> <li>● Mold Dimension Stability</li> <li>● Good Transparency</li> <li>● Easy Processing</li> </ul> | <ul style="list-style-type: none"> <li>● Electrical appliances,</li> <li>● house hard wares,</li> <li>● cassette &amp; cosmetic cases, I</li> <li>● amp decoration,</li> <li>● toys.</li> </ul> |

## Physical Properties

| Properties                  | ISO method | Test Condition                           | Unit               | Typical Value |
|-----------------------------|------------|------------------------------------------|--------------------|---------------|
| Specific Gravity            | ISO 1183   | ---                                      | ---                | 1.04          |
| Melt Flow Index             | ISO 1133   | 200°C, 5kg load                          | g/cm <sup>3</sup>  | 7.4           |
| Tensile Strength at Yield   | ISO 527    | 23°C, 50 mm/min                          | kg/cm <sup>2</sup> | 44            |
| Elongation at Break         | ISO 527    | 23°C, 50 mm/min                          | %                  | 2             |
| Izod Impact Strength        | ISO 180/1A | 23°C, Izod Notched                       | kg-cm/cm           | 1.8           |
| Vicat Softening Temperature | ISO 306    | 120°C/hr , 1 kg load                     | °C                 | 98            |
| Heat Distortion Temperature | ISO 75A    | Unanneale 1.8MPa load pressure(Edgewise) | °C                 | 85            |
| Flammability                | UL-94      | 1/16" Sample                             | File No. E50263    | 94HB          |
| Residual SM monomer         | Internal   | GC                                       | ppm                | < 300         |
| Haze                        | ---        | 2.8mm thick                              | %                  | 0.4           |

