

**(General Purpose Polystyrene) GPPS 818K**

| Characteristics                                                                                                                                                                                                                                                                                                                |             | Applications                            |                    |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------|--------------------|---------------|
| <ul style="list-style-type: none"><li>● Extrusion Grade</li><li>● The most state of the art from 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><li>● High M.W.</li><li>● High strength</li></ul> |             | OPS／PSP sheet applications.             |                    |               |
| Physical Properties                                                                                                                                                                                                                                                                                                            |             |                                         |                    |               |
| Properties                                                                                                                                                                                                                                                                                                                     | ASTM method | Test Condition                          | Unit               | Typical Value |
| Specific Gravity                                                                                                                                                                                                                                                                                                               | D542        | ---                                     | ---                | 1.046         |
| Melt Flow Index                                                                                                                                                                                                                                                                                                                | D1238       | 200℃ , 5 kg load                        | g/10min            | 2.3           |
| Tensile Strength at Yield                                                                                                                                                                                                                                                                                                      | D638        | 23℃ , 1/8" Sample                       | kg/cm2             | 540           |
| Elongation at Break                                                                                                                                                                                                                                                                                                            | D638        | 23℃ , 1/8" Sample                       | %                  | 2.0           |
| Izod Impact Strength                                                                                                                                                                                                                                                                                                           | D256        | 23℃,A method,notched<br>1/4"×1/2"×5/2"  | kg-cm/cm           | 1.5           |
| Vicat Softening Temperature                                                                                                                                                                                                                                                                                                    | D1525       | 1 kg load , 3 mm Thick<br>( 120 °C/hr ) | ℃                  | 107           |
| Flammability                                                                                                                                                                                                                                                                                                                   | UL-94       | 1/16" Sample                            | File No.<br>E50263 | 94HB          |
| Residual SM monomer                                                                                                                                                                                                                                                                                                            | Internal    | GC                                      | ppm                | < 300         |
| Haze                                                                                                                                                                                                                                                                                                                           | ---         | 2.8mm thick                             | %                  | 0.5           |

