

### General GPPS POLYREX® PG-80

Product Description: High strength

| Properties                              | ISO Test Method | Test Condition     | Unit              | PG-80    |
|-----------------------------------------|-----------------|--------------------|-------------------|----------|
| Melt Flow Index                         | 1133            | 200°C×5KG          | ml/10 min         | 4.5      |
| Mass Density                            | 1183            | 23 °C              | g/cm <sup>3</sup> | 1.05     |
| Tensile Strength                        | 527             | 50 mm/min, yield   | MPa               | -        |
|                                         |                 | 50 mm/min, break   | MPa               | 45       |
| Tensile Elongation                      | 527             | 50 mm/min          | %                 | 5        |
| Flexural Strength                       | 178             | 2 mm/min           | MPa               | 68       |
| Flexural Modulus                        |                 | 2 mm/min           | GPa               | 2.4      |
| Izod Impact Strength                    | 180/1A          | 23 °C Notched      | KJ/m <sup>2</sup> | 2        |
|                                         |                 | -30 °C Notched     | KJ/m <sup>2</sup> | 1.8      |
| Charpy Impact Strength                  | 179             | 23 °C Notched      | KJ/m <sup>2</sup> | 3        |
|                                         |                 | -30 °C Notched     | KJ/m <sup>2</sup> | 2.5      |
| Vicat Softening Temp.                   | 306             | 1 Kg,50 °C/hr      | °C                | 96       |
|                                         |                 | 5 Kg,50 °C/hr      | °C                | 92       |
| Heat Distortion Temp.                   | 75/A            | 1.8 MPa Unannealed | °C                | 80       |
|                                         |                 | 1.8 MPa Annealed   | °C                | 94       |
| Coefficient of Linear Thermal Expansion | 11359           | -                  | -                 | 5~8x10-5 |
| Flammability                            | -               | UL-94              | -                 | 1.5mm HB |
| Mold Shrinkage                          | 294-4           | -                  | %                 | 0.4~0.7  |
| Symbol                                  | 1043            | -                  | -                 | >PS<     |

