

## High Heat ABS POLYLAC<sup>®</sup> PA-777E

Product Description: Ultra High heat

| Properties                                     | ISO Test Method | Test Condition     | Unit              | PA-777E    |
|--|-----------------|--------------------|-------------------|------------|
| <b>Melt Flow Index</b>                         | 1133            | 220°C×10KG         | ml/10 min         | 4.5        |
| <b>Mass Density</b>                            | 1183            | 23 °C              | g/cm <sup>3</sup> | 1.07       |
| <b>Tensile Strength</b>                        | 527             | 50 mm/min, yield   | MPa               | 45         |
|  |                 | 50 mm/min, break   | MPa               | 32         |
| <b>Tensile Elongation</b>                      | 527             | 50 mm/min          | %                 | 25         |
| <b>Flexural Strength</b>                       | 178             | 2 mm/min           | MPa               | 74         |
| <b>Flexural Modulus</b>                        |                 | 2 mm/min           | GPa               | 2.3        |
| <b>Izod Impact Strength</b>                    | 180/1A          | 23°C, Notched      | KJ/m <sup>2</sup> | 12         |
|  |                 | -30°C, Notched     | KJ/m <sup>2</sup> | 6          |
| <b>Charpy Impact Strength</b>                  | 179             | 23°C, Notched      | KJ/m <sup>2</sup> | 13         |
|  |                 | -30°C, Notched     | KJ/m <sup>2</sup> | 6          |
| <b>Vicat Softening Temp.</b>                   | 306             | 50°C/hr;1KG        | °C                | 129        |
|  |                 | 50°C/hr;5KG        | °C                | 121        |
| <b>Heat Distortion Temp.</b>                   | 75/A            | 1.8MPa, unannealed | °C                | 101        |
|  |                 | 1.8MPa, annealed   | °C                | 121        |
| <b>Coefficient of Linear Thermal Expansion</b> | 11359           | -                  | -                 | 8.2 x 10-5 |
| <b>Flammability</b>                            | -               | UL-94              | -                 | 1.5mm HB   |
| <b>Mold Shrinkage</b>                          | 294-4           | -                  | %                 | 0.3~0.6    |
| <b>Symbol</b>                                  | 1043            | -                  | -                 | >ABS<      |

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Notes : These are typical properties only and are not to be construed as specifications. Users should confirm results by their own test

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