

## Food HIPS POLYREX® PH-55Y

Product Description: Medium impact

| Properties                              | ISO Test Method | Test Condition     | Unit              | PH-55Y               |
|-----------------------------------------|-----------------|--------------------|-------------------|----------------------|
| Melt Flow Index                         | 1133            | 200°C×5KG          | ml/10 min         | 9.0                  |
| Mass Density                            | 1183            | 23 °C              | g/cm <sup>3</sup> | 1.05                 |
| Tensile Strength                        | 527             | 50 mm/min, yield   | MPa               | 27                   |
|                                         |                 | 50 mm/min, break   | MPa               | 25                   |
| Tensile Elongation                      | 527             | 50 mm/min          | %                 | 60                   |
| Flexural Strength                       | 178             | 2 mm/min           | MPa               | 38                   |
| Flexural Modulus                        |                 | 2 mm/min           | GPa               | 1.3                  |
| Izod Impact Strength                    | 180/1A          | 23°C, Notched      | KJ/m <sup>2</sup> | 7                    |
|                                         |                 | -30°C, Notched     | KJ/m <sup>2</sup> | 3.0                  |
| Charpy Impact Strength                  | 179             | 23 °C Notched      | KJ/m <sup>2</sup> | 6                    |
|                                         |                 | -30 °C Notched     | KJ/m <sup>2</sup> | 3.6                  |
| Vicat Softening Temp.                   | 306             | 1 Kg,50 °C/hr      | °C                | 94                   |
|                                         |                 | 5 Kg,50 °C/hr      | °C                | 87                   |
| Heat Distortion Temp.                   | 75/A            | 1.8 MPa Unannealed | °C                | 74                   |
|                                         |                 | 1.8 MPa Annealed   | °C                | 87                   |
| Coefficient of Linear Thermal Expansion | 11359           | -                  | -                 | 4~6x10 <sup>-5</sup> |
| Flammability                            | -               | UL-94              | -                 | 1.5mm HB             |
| Mold Shrinkage                          | 294-4           | -                  | %                 | 0.4~0.7              |
| Symbol                                  | 1043            | -                  | -                 | >PS-HI<              |

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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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