

## Flame Retardant PC Alloy WONDERLOY® PC-540

Product Description: High heat

| Properties                              | ISO Test Method | Test Condition              | Unit              | PC-540                              |
|-----------------------------------------|-----------------|-----------------------------|-------------------|-------------------------------------|
| Melt Flow Index                         | 1133            | 260°C×2.16KG                | ml/10 min         | 20                                  |
| Spiral flow                             | CHIMEI          | 260°C, 2mm,<br>V:50%, P:50% | cm                | 40                                  |
| Mass Density                            | 1183            | 23 °C                       | g/cm <sup>3</sup> | 1.18                                |
| Tensile Strength                        | 527             | 50 mm/min, yield            | MPa               | 60                                  |
|                                         |                 | 50 mm/min, break            | MPa               | 55                                  |
| Tensile Elongation                      | 527             | 50 mm/min                   | %                 | 95                                  |
| Flexural Strength                       | 178             | 2 mm/min                    | MPa               | 90                                  |
| Flexural Modulus                        |                 | 2 mm/min                    | GPa               | 2.5                                 |
| Izod Impact Strength                    | 180/1A          | 23°C, Notched,<br>3.2mm     | KJ/m <sup>2</sup> | 40                                  |
|                                         |                 | -30°C, Notched,<br>3.2mm    | KJ/m <sup>2</sup> | —                                   |
| Charpy Impact Strength                  | 179             | 23°C, Notched,<br>3.2mm     | KJ/m <sup>2</sup> | 40                                  |
|                                         |                 | -30°C, Notched,<br>3.2mm    | KJ/m <sup>2</sup> | —                                   |
| Vicat Softening Temp.                   | 306             | 50°C/hr; 1KG                | °C                | 107                                 |
|                                         |                 | 50°C/hr; 5KG                | °C                | 101                                 |
| Heat Distortion Temp.                   | 75/A            | 1.8MPa, unannealed          | °C                | 83                                  |
|                                         |                 | 1.8MPa, annealed            | °C                | —                                   |
| Dielectric Constant                     | IEC 60250       | 1MHz                        | --                | 3.1                                 |
| Volume Resistivity                      | IEC 60093       | --                          | Ohm X m           | 3.9E+15                             |
| Surface Resistivity                     | IEC 60093       | --                          | Ohm               | 2.9E+15                             |
| Coefficient of Linear Thermal Expansion | 11359           | -                           | -                 | 8*10 <sup>-5</sup>                  |
| Flammability                            | -               | UL-94                       | -                 | 1.5mm V-0<br>2.0mm 5VB<br>2.5mm 5VA |
| Mold Shrinkage                          | 294-4           | -                           | %                 | 0.4~0.6                             |
| Symbol                                  | 1043            | -                           | -                 | >PC+ABS-<br>FR(40)<                 |

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Notes: The value provided herein has been established on above test methods and conditions, which only as reference for selecting material, NOT guaranteed values or formal specifications. There can be variation within normal tolerances in colors.

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