



# Component - Plastics

File Number: E56070

CHI MEI CORPORATION

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## WONDERLOY: PC-540(Y)(a)

Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS), pellets

(a) - Ball pressure temperature is in accordance with IEC 60695-10-2 Method B.

(Y) - Optional suffix; may be suffixed with one or two alphabet but except H, unconcerned with formula or constituent changed.

| Flammability                          | Value           | Test Method                   |
|---------------------------------------|-----------------|-------------------------------|
| Flame Rating                          |                 |                               |
| 0.75 mm, ALL                          | HB              | UL 94                         |
| 0.8 mm, ALL                           | V-2             | UL 94<br>IEC 60695-11-10, -20 |
| 1.5 mm, ALL                           | V-0             | UL 94<br>IEC 60695-11-10, -20 |
| 2.0 mm, ALL                           | V-0, 5VB        | UL 94<br>IEC 60695-11-10, -20 |
| 2.5 mm, ALL                           | V-0, 5VA        | UL 94<br>IEC 60695-11-10, -20 |
| 3.0 mm, ALL                           | V-0, 5VA        | UL 94<br>IEC 60695-11-10, -20 |
| 0.75 mm, ALL                          | HB75            | IEC 60695-11-10, -20          |
| Glow Wire Flammability Index          |                 | IEC 60695-2-12                |
| 1.5 mm                                | 960 °C          |                               |
| 3.0 mm                                | 960 °C          |                               |
| Glow Wire Ignition Temperature        |                 | IEC 60695-2-13                |
| 1.5 mm                                | 800 °C          |                               |
| 3.0 mm                                | 750 °C          |                               |
| Electrical                            | Value           | Test Method                   |
| Hot-wire Ignition (HWI)               |                 | UL 746A                       |
| 0.75 mm                               | PLC 3           |                               |
| 0.8 mm                                | PLC 3           |                               |
| 1.5 mm                                | PLC 3           |                               |
| 2.0 mm                                | PLC 3           |                               |
| 2.5 mm                                | PLC 3           |                               |
| 3.0 mm                                | PLC 3           |                               |
| High Amp Arc Ignition (HAI)           |                 | UL 746A                       |
| 0.75 mm                               | PLC 3           |                               |
| 0.8 mm                                | PLC 3           |                               |
| 1.5 mm                                | PLC 3           |                               |
| 2.0 mm                                | PLC 3           |                               |
| 2.5 mm                                | PLC 3           |                               |
| 3.0 mm                                | PLC 2           |                               |
| Comparative Tracking Index (CTI)      | PLC 2           | UL 746A                       |
| Dielectric Strength                   | 32 kV/mm        | ASTM D149                     |
| High Voltage Arc Tracking Rate (HVTR) | PLC 3           | UL 746A                       |
| Volume Resistivity                    | 1.0E+14 ohms-cm | ASTM D257<br>IEC 60093        |

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| Electrical                | Value   | Test Method            |
|---------------------------|---------|------------------------|
| Arc Resistance            | PLC 5   | ASTM D495              |
| Thermal                   | Value   | Test Method            |
| RTI Elec                  |         | UL 746B                |
| 0.75 mm                   | 60.0 °C |                        |
| 0.8 mm                    | 60.0 °C |                        |
| 1.5 mm                    | 85.0 °C |                        |
| 2.0 mm                    | 85.0 °C |                        |
| 2.5 mm                    | 85.0 °C |                        |
| 3.0 mm                    | 85.0 °C |                        |
| RTI Imp                   |         | UL 746B                |
| 0.75 mm                   | 60.0 °C |                        |
| 0.8 mm                    | 60.0 °C |                        |
| 1.5 mm                    | 80.0 °C |                        |
| 2.0 mm                    | 80.0 °C |                        |
| 2.5 mm                    | 80.0 °C |                        |
| 3.0 mm                    | 80.0 °C |                        |
| RTI Str                   |         | UL 746B                |
| 0.75 mm                   | 60.0 °C |                        |
| 0.8 mm                    | 60.0 °C |                        |
| 1.5 mm                    | 80.0 °C |                        |
| 2.0 mm                    | 80.0 °C |                        |
| 2.5 mm                    | 80.0 °C |                        |
| 3.0 mm                    | 80.0 °C |                        |
| Ball Pressure Test (90°C) | Pass    | IEC 60695-10-2         |
| Physical                  | Value   | Test Method            |
| Dimensional Change        | 0.0 %   | ASTM D1042<br>ISO 2796 |

