



# Component - Plastics

File Number: E36632

**BASF CORP**

1609 BIDDLE AVE, WYANDOTTE MI 48192-3729



**Ultramid: A3EG6**

Polyamide 66 (PA66), pellets

| Flammability                          | Value          | Test Method              |
|---------------------------------------|----------------|--------------------------|
| Flame Rating                          |                |                          |
| 0.750 mm, ALL                         | HB             | UL 94                    |
| 1.50 mm, ALL                          | HB             | UL 94                    |
| 3.00 mm, ALL                          | HB             | UL 94                    |
| 6.00 mm, ALL                          | HB             | UL 94                    |
| 3.00 mm, ALL                          | HB40           | IEC 60695-11-10, -20     |
| 6.00 mm, ALL                          | HB40           | IEC 60695-11-10, -20     |
| 0.750 mm, ALL                         | HB75           | IEC 60695-11-10, -20     |
| 1.50 mm, ALL                          | HB75           | IEC 60695-11-10, -20     |
| Electrical                            | Value          | Test Method              |
| Hot-wire Ignition (HWI)               |                | UL 746                   |
| 0.750 mm                              | PLC 4          |                          |
| 1.50 mm                               | PLC 4          |                          |
| 3.00 mm                               | PLC 1          |                          |
| 6.00 mm                               | PLC 0          |                          |
| High Amp Arc Ignition (HAI)           |                | UL 746                   |
| 0.750 mm                              | PLC 0          |                          |
| 1.50 mm                               | PLC 0          |                          |
| 3.00 mm                               | PLC 0          |                          |
| 6.00 mm                               | PLC 0          |                          |
| Comparative Tracking Index (CTI)      | PLC 0          | UL 746                   |
| Dielectric Strength                   | 23 kV/mm       | ASTM D149<br>IEC 60243-1 |
| High Voltage Arc Tracking Rate (HVTR) | PLC 1          | UL 746                   |
| Volume Resistivity                    | 1.0E+12 ohm-cm | ASTM D257<br>IEC 60093   |
| Arc Resistance                        | PLC 5          | ASTM D495                |
| Thermal                               | Value          | Test Method              |
| RTI Elec                              |                | UL 746                   |
| 0.750 mm                              | 120 °C         |                          |
| 1.50 mm                               | 120 °C         |                          |
| 3.00 mm                               | 120 °C         |                          |
| 6.00 mm                               | 120 °C         |                          |
| RTI Imp                               |                | UL 746                   |
| 1.50 mm                               | 120 °C         |                          |
| 3.00 mm                               | 120 °C         |                          |
| 6.00 mm                               | 120 °C         |                          |
| RTI Str                               |                | UL 746                   |
| 1.50 mm                               | 130 °C         |                          |
| 3.00 mm                               | 130 °C         |                          |
| 6.00 mm                               | 130 °C         |                          |

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| Physical              | Value | Test Method            |
|-----------------------|-------|------------------------|
| Dimensional Stability | 0.0 % | ASTM D1042<br>ISO 2796 |

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