

# Ultramid® A3WG10 BK00564

Polyamide 66

BASF Corporation

## Message:

Ultramid A3WG10 BK00564 is a 50% glass fiber reinforced and heat aging resistance injection molding PA66 grade.

### Applications

Typical applications include industrial articles having very high rigidity.

| General Information                 |                                  |               |                  |
|-------------------------------------|----------------------------------|---------------|------------------|
| UL YellowCard                       | E36632-531629                    | E41871-233742 | E41871-101468831 |
| Filler / Reinforcement              | Glass Fiber,50% Filler by Weight |               |                  |
| Features                            | Good Heat Aging Resistance       |               |                  |
|                                     | High Rigidity                    |               |                  |
|                                     | Oil Resistant                    |               |                  |
| Uses                                | Industrial Applications          |               |                  |
| Agency Ratings                      | EC 1907/2006 (REACH)             |               |                  |
| RoHS Compliance                     | RoHS Compliant                   |               |                  |
| Appearance                          | Black                            |               |                  |
| Forms                               | Pellets                          |               |                  |
| Processing Method                   | Injection Molding                |               |                  |
| Physical                            | Nominal Value                    | Unit          | Test Method      |
| Density                             | 1.55                             | g/cm³         | ISO 1183         |
| Water Absorption                    |                                  |               | ISO 62           |
| Saturation, 23°C                    | 4.0                              | %             |                  |
| Equilibrium, 23°C, 50% RH           | 1.2                              | %             |                  |
| Mechanical                          | Nominal Value                    | Unit          | Test Method      |
| Tensile Modulus (23°C)              | 14700                            | MPa           | ISO 527-2        |
| Tensile Stress (Break, 23°C)        | 254                              | MPa           | ISO 527-2        |
| Tensile Strain (Break, 23°C)        | 2.5                              | %             | ISO 527-2        |
| Flexural Modulus (23°C)             | 16100                            | MPa           | ISO 178          |
| Impact                              | Nominal Value                    | Unit          | Test Method      |
| Notched Izod Impact Strength (23°C) | 15                               | kJ/m²         | ISO 180          |
| Thermal                             | Nominal Value                    | Unit          | Test Method      |
| Melting Temperature (DSC)           | 260                              | °C            | ISO 3146         |
| Injection                           | Nominal Value                    | Unit          |                  |
| Drying Temperature                  | 80.0                             | °C            |                  |
| Drying Time                         | 2.0 to 4.0                       | hr            |                  |
| Suggested Max Moisture              | 0.15                             | %             |                  |
| Processing (Melt) Temp              | 280 to 305                       | °C            |                  |
| Mold Temperature                    | 80.0 to 90.0                     | °C            |                  |

|                    |              |     |
|--------------------|--------------|-----|
| Injection Pressure | 3.50 to 12.5 | MPa |
| Injection Rate     | Fast         |     |

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