# Ultramid® A3W Q601

Polyamide 66

BASF Corporation

## Message:

Ultramid A3W Q601 is an easy flowing, heat aging resistant injection molding PA66 grade for fast processing.
Applications
Typical applications include highly stressed parts such as bearings, bearing cages, gear-wheels, coil formers and cable connectors.

| General Information | | | |
|---|---|---|---|
| Features | Fast Molding Cycle<br>Good Flow<br>Good Heat Aging Resistance<br>Oil Resistant | | |
| Uses | Bearings<br>Connectors<br>Gears | | |
| Agency Ratings | EC 1907/2006 (REACH) | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 1.13 | g/cm³ | ISO 1183 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus (23°C) | 3120 | MPa | ISO 527-2 |
| Tensile Stress (Yield, 23°C) | 85.0 | MPa | ISO 527-2 |
| Tensile Strain (Yield, 23°C) | 4.3 | % | ISO 527-2 |
| Flexural Modulus (23°C) | 2920 | MPa | ISO 178 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength (23°C) | 6.0 | kJ/m² | ISO 179 |
| Notched Izod Impact Strength (23°C) | 6.0 | kJ/m² | ISO 180 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 74.0 | °C | ISO 75-2/A |
| 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 | 0.20 | % | |
| Processing (Melt) Temp | 280 to 300 | °C | |

| | | |
|---|---|---|
| Mold Temperature | 40.0 to 80.0 | °C |
| Injection Pressure | 3.50 to 12.5 | MPa |
| Injection Rate | Fast | |



## Recommended distributors for this material

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