

**Ultramid® B3E2G3**  
**PA6-GF15**

BASF

| Mechanical Properties                   | dry / cond  | Unit  | Test Standard |
|-----------------------------------------|-------------|-------|---------------|
| <b>ISO Data</b>                         |             |       |               |
| Tensile Modulus                         | 5500 / 3200 | MPa   | ISO 527       |
| Stress at Break                         | 125 / 75    | MPa   | ISO 527       |
| Strain at Break                         | 3 / 11      | %     | ISO 527       |
| Impact Strength (Charpy), +23°C         | 45 / 100    | kJ/m² | ISO 179/1eU   |
| Impact Strength (Charpy), -30°C         | 35 / -      | kJ/m² | ISO 179/1eU   |
| Notched Impact Strength (Charpy), +23°C | 7 / 11      | kJ/m² | ISO 179/1eA   |
| Notched Impact Strength (Charpy), -30°C | 6 / -       | kJ/m² | ISO 179/1eA   |

| Thermal Properties                        | dry / cond | Unit | Test Standard  |
|-------------------------------------------|------------|------|----------------|
| <b>ISO Data</b>                           |            |      |                |
| Melting Temperature (10°C/min)            | 220 / *    | °C   | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 190 / *    | °C   | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa) | 210 / *    | °C   | ISO 75-1/-2    |

| Electrical Properties       | dry / cond  | Unit  | Test Standard |
|-----------------------------|-------------|-------|---------------|
| <b>ISO Data</b>             |             |       |               |
| Relative permittivity, 1MHz | 3.5 / 6     | -     | IEC 62631-2-1 |
| Dissipation Factor, 1MHz    | 200 / 2500  | E-4   | IEC 62631-2-1 |
| Volume Resistivity          | 1E13 / 1E10 | Ohm*m | IEC 62631-3-1 |
| Comparative tracking index  | 550 / -     | -     | IEC 60112     |

| Other Properties    | dry / cond | Unit  | Test Standard  |
|---------------------|------------|-------|----------------|
| <b>ISO Data</b>     |            |       |                |
| Water Absorption    | 8.7 / *    | %     | Sim. to ISO 62 |
| Humidity absorption | 2 / *      | %     | Sim. to ISO 62 |
| Density             | 1230 / -   | kg/m³ | ISO 1183       |
| Bulk density        | 700        | kg/m³ | -              |

| Material Specific Properties | dry / cond | Unit  | Test Standard       |
|------------------------------|------------|-------|---------------------|
| <b>ISO Data</b>              |            |       |                     |
| Viscosity number             | 145 / *    | cm³/g | ISO 307, 1157, 1628 |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Melt temperature                            | 260 - 280 | °C   | -             |
| Mold temperature                            | 80 - 100  | °C   | -             |

## Characteristics

### Processing

Injection Molding

### Delivery form

Pellets

### Applications

Automotive, Building Construction, IT / Business Machine,  
Electrical and Electronical

## Disclaimer

### Liability Exclusion

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