

**Ultramid® Advanced Exp. T1000HG7 un**  
**PPA-GF35**

BASF

| Rheological properties      | dry / cond | Unit | Test Standard   |
|-----------------------------|------------|------|-----------------|
| <b>ISO Data</b>             |            |      |                 |
| Molding shrinkage, parallel | 0.4 / *    | %    | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 0.9 / *    | %    | ISO 294-4, 2577 |

| Mechanical Properties                   | dry / cond    | Unit  | Test Standard |
|-----------------------------------------|---------------|-------|---------------|
| <b>ISO Data</b>                         |               |       |               |
| Tensile Modulus                         | 14000 / 14000 | MPa   | ISO 527       |
| Stress at Break                         | 240 / 220     | MPa   | ISO 527       |
| Strain at Break                         | 2.2 / 2.1     | %     | ISO 527       |
| Impact Strength (Charpy), +23°C         | 75 / -        | kJ/m² | ISO 179/1eU   |
| Notched Impact Strength (Charpy), +23°C | 10 / -        | kJ/m² | ISO 179/1eA   |

| Thermal Properties                          | dry / cond | Unit  | Test Standard  |
|---------------------------------------------|------------|-------|----------------|
| <b>ISO Data</b>                             |            |       |                |
| Melting Temperature (10°C/min)              | 320 / *    | °C    | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa)   | 280 / *    | °C    | ISO 75-1/-2    |
| Coeff. of Linear Therm. Expansion, parallel | 22 / *     | E-6/K | ISO 11359-1/-2 |
| Coeff. of Linear Therm. Expansion, normal   | 52 / *     | E-6/K | ISO 11359-1/-2 |

| Electrical Properties | dry / cond  | Unit  | Test Standard |
|-----------------------|-------------|-------|---------------|
| <b>ISO Data</b>       |             |       |               |
| Volume Resistivity    | 1E14 / 1E14 | Ohm*m | IEC 62631-3-1 |
| Surface Resistivity   | * / >1E15   | Ohm   | IEC 62631-3-2 |
| Electric Strength     | 48 / -      | kV/mm | IEC 60243-1   |

| Other Properties | dry / cond | Unit  | Test Standard |
|------------------|------------|-------|---------------|
| <b>ISO Data</b>  |            |       |               |
| Density          | 1490 / -   | kg/m³ | ISO 1183      |
| Bulk density     | 700        | kg/m³ | -             |

| Material Specific Properties | dry / cond | Unit  | Test Standard       |
|------------------------------|------------|-------|---------------------|
| <b>ISO Data</b>              |            |       |                     |
| Viscosity number             | 110 / *    | cm³/g | ISO 307, 1157, 1628 |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Melt temperature                            | 345 - 360 | °C   | -             |
| Mold temperature                            | 140 - 160 | °C   | -             |

| Processing Recommendation Extrusion | Value     | Unit | Test Standard |
|-------------------------------------|-----------|------|---------------|
| Melt temperature                    | 345 - 360 | °C   | -             |

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Delivery form**

Pellets, Natural Color

**Special Characteristics**

Heat aging stabilized

**Chemical Resistance**

General Chemical Resistance