

**Ultrad® Advanced Exp. T1000HG6 LS BK**  
PPA-GF30

BASF

| Rheological properties      | dry / cond | Unit | Test Standard   |
|-----------------------------|------------|------|-----------------|
| <b>ISO Data</b>             |            |      |                 |
| Molding shrinkage, parallel | 0.4 / *    | %    | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 1.0 / *    | %    | ISO 294-4, 2577 |

| Mechanical Properties                   | dry / cond    | Unit  | Test Standard |
|-----------------------------------------|---------------|-------|---------------|
| <b>ISO Data</b>                         |               |       |               |
| Tensile Modulus                         | 12000 / 12000 | MPa   | ISO 527       |
| Stress at Break                         | 200 / 180     | MPa   | ISO 527       |
| Strain at Break                         | 2 / 1.7       | %     | ISO 527       |
| Impact Strength (Charpy), +23°C         | 55 / 50       | kJ/m² | ISO 179/1eU   |
| Impact Strength (Charpy), -30°C         | 55 / 50       | kJ/m² | ISO 179/1eU   |
| Notched Impact Strength (Charpy), +23°C | 7.5 / 6.5     | kJ/m² | ISO 179/1eA   |
| Notched Impact Strength (Charpy), -30°C | 7.5 / 6.5     | kJ/m² | ISO 179/1eA   |
| Flexural Modulus (23°C)                 | 11000 / 11000 | MPa   | ISO 178       |
| Flexural strength                       | 290 / 280     | MPa   | ISO 178       |

| 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    |

| 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     | 39 / -      | kV/mm | IEC 60243-1   |

| Other Properties    | dry / cond | Unit  | Test Standard  |
|---------------------|------------|-------|----------------|
| <b>ISO Data</b>     |            |       |                |
| Water Absorption    | 4.1 / *    | %     | Sim. to ISO 62 |
| Humidity absorption | 1.8 / *    | %     | Sim. to ISO 62 |
| Density             | 1440 / -   | kg/m³ | ISO 1183       |
| Bulk density        | 700        | kg/m³ | -              |

| Material Specific Properties | dry / cond | Unit  | Test Standard       |
|------------------------------|------------|-------|---------------------|
| <b>ISO Data</b>              |            |       |                     |
| Viscosity number             | 105 / *    | cm³/g | ISO 307, 1157, 1628 |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Melt temperature                            | 330 - 350 | °C   | -             |
| Mold temperature                            | 140 - 160 | °C   | -             |

| Processing Recommendation Extrusion | Value     | Unit | Test Standard |
|-------------------------------------|-----------|------|---------------|
| Melt temperature                    | 330 - 350 | °C   | -             |

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Special Characteristics**

Heat aging stabilized

**Delivery form**

Pellets, Black

**Chemical Resistance**

General Chemical Resistance