

**Ultradur® B 4300 G6 HR FC Aqua**  
PBT-GF30

BASF

| Rheological properties      | Value | Unit | Test Standard   |
|-----------------------------|-------|------|-----------------|
| <b>ISO Data</b>             |       |      |                 |
| Molding shrinkage, parallel | 0.5   | %    | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 1.2   | %    | ISO 294-4, 2577 |

| Mechanical Properties                   | Value | Unit  | Test Standard |
|-----------------------------------------|-------|-------|---------------|
| <b>ISO Data</b>                         |       |       |               |
| Tensile Modulus                         | 9000  | MPa   | ISO 527       |
| Stress at Break                         | 130   | MPa   | ISO 527       |
| Strain at Break                         | 3.7   | %     | ISO 527       |
| Impact Strength (Charpy), +23°C         | 71    | kJ/m² | ISO 179/1eU   |
| Impact Strength (Charpy), -30°C         | 73    | kJ/m² | ISO 179/1eU   |
| Notched Impact Strength (Charpy), +23°C | 10.7  | kJ/m² | ISO 179/1eA   |
| Notched Impact Strength (Charpy), -30°C | 8.5   | kJ/m² | ISO 179/1eA   |
| Flexural Modulus (23°C)                 | 8700  | MPa   | ISO 178       |
| Flexural strength                       | 210   | MPa   | ISO 178       |

| Thermal Properties                        | Value | Unit | Test Standard  |
|-------------------------------------------|-------|------|----------------|
| <b>ISO Data</b>                           |       |      |                |
| Melting Temperature (10°C/min)            | 223   | °C   | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 205   | °C   | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa) | 220   | °C   | ISO 75-1/-2    |

| Other Properties    | Value | Unit  | Test Standard  |
|---------------------|-------|-------|----------------|
| <b>ISO Data</b>     |       |       |                |
| Water Absorption    | 0.4   | %     | Sim. to ISO 62 |
| Humidity absorption | 0.2   | %     | Sim. to ISO 62 |
| Density             | 1530  | kg/m³ | ISO 1183       |
| Bulk density        | 750   | kg/m³ | -              |

| Material Specific Properties | Value | 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                            | 250 - 275 | °C   | -             |
| Mold temperature                            | 60 - 100  | °C   | -             |

| Processing Recommendation Extrusion | Value     | Unit | Test Standard |
|-------------------------------------|-----------|------|---------------|
| Melt temperature                    | 250 - 275 | °C   | -             |

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Features**

Thermal Stability

**Delivery form**

Natural Color

**Certifications**

Food approval, Food approval 10/2011, Food Contact (FDA),  
Water contact