

**Ultrason® E 2010 G4 MR SW 15102**  
**PESU-GF20**

BASF

| Rheological properties      | Value | Unit      | Test Standard   |
|-----------------------------|-------|-----------|-----------------|
| <b>ISO Data</b>             |       |           |                 |
| Melt volume-flow rate, MVR  | 29    | cm³/10min | ISO 1133        |
| Temperature                 | 360   | °C        | -               |
| Load                        | 10    | kg        | -               |
| Molding shrinkage, parallel | 0.4   | %         | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 0.6   | %         | ISO 294-4, 2577 |

| Mechanical Properties                   | Value | Unit  | Test Standard |
|-----------------------------------------|-------|-------|---------------|
| <b>ISO Data</b>                         |       |       |               |
| Tensile Modulus                         | 7300  | MPa   | ISO 527       |
| Stress at Break                         | 125   | MPa   | ISO 527       |
| Strain at Break                         | 2.5   | %     | ISO 527       |
| Impact Strength (Charpy), +23°C         | 47    | kJ/m² | ISO 179/1eU   |
| Notched Impact Strength (Charpy), +23°C | 6.5   | kJ/m² | ISO 179/1eA   |
| Ball Indentation Hardness               | 205   | MPa   | ISO 2039-1    |

| Thermal Properties                          | Value | Unit  | Test Standard  |
|---------------------------------------------|-------|-------|----------------|
| <b>ISO Data</b>                             |       |       |                |
| Glass Transition Temperature (10°C/min)     | 225   | °C    | ISO 11357-1/-2 |
| Temp. of deflection under load (1.80 MPa)   | 220   | °C    | ISO 75-1/-2    |
| Coeff. of Linear Therm. Expansion, parallel | 20    | E-6/K | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm Nom. Thickn.       | V-0   | class | UL 94          |
| Thickness tested                            | 1.6   | mm    | -              |
| Burning Behav. at thickness h               | V-0   | class | UL 94          |
| Thickness tested                            | 3.0   | mm    | -              |

| Other Properties    | Value | Unit  | Test Standard  |
|---------------------|-------|-------|----------------|
| <b>ISO Data</b>     |       |       |                |
| Water Absorption    | 1.6   | %     | Sim. to ISO 62 |
| Humidity absorption | 0.6   | %     | Sim. to ISO 62 |
| Density             | 1500  | kg/m³ | ISO 1183       |

| Material Specific Properties | Value | Unit  | Test Standard       |
|------------------------------|-------|-------|---------------------|
| <b>ISO Data</b>              |       |       |                     |
| Viscosity number             | 56    | cm³/g | ISO 307, 1157, 1628 |

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Pellets, Black