

**Pocan® B3215E 000000**

PBT-GF10

Envalior

Injection Molding, 10% Glass Reinforced, Improved flow, Improved Impact

ISO 1043 PBT-GF10

| Rheological properties      | Value | Unit                   | Test Standard   |
|-----------------------------|-------|------------------------|-----------------|
| <b>ISO Data</b>             |       |                        |                 |
| Melt volume-flow rate, MVR  | 30    | cm <sup>3</sup> /10min | ISO 1133        |
| Temperature                 | 260   | °C                     | -               |
| Load                        | 2.16  | kg                     | -               |
| Molding shrinkage, parallel | 1.2   | %                      | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 1.0   | %                      | ISO 294-4, 2577 |

| Mechanical Properties                   | Value | Unit              | Test Standard |
|-----------------------------------------|-------|-------------------|---------------|
| <b>ISO Data</b>                         |       |                   |               |
| Tensile Modulus                         | 4350  | MPa               | ISO 527       |
| Stress at Break                         | 80    | MPa               | ISO 527       |
| Strain at Break                         | 4     | %                 | ISO 527       |
| Impact Strength (Charpy), +23°C         | 40    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Impact Strength (Charpy), -30°C         | 30    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Notched Impact Strength (Charpy), +23°C | 10    | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Notched Impact Strength (Charpy), -30°C | 10    | kJ/m <sup>2</sup> | ISO 179/1eA   |

| Thermal Properties                          | Value | Unit  | Test Standard  |
|---------------------------------------------|-------|-------|----------------|
| <b>ISO Data</b>                             |       |       |                |
| Melting Temperature (10°C/min)              | 225   | °C    | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa)   | 185   | °C    | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa)   | 215   | °C    | ISO 75-1/-2    |
| Coeff. of Linear Therm. Expansion, parallel | 60    | E-6/K | ISO 11359-1/-2 |
| Coeff. of Linear Therm. Expansion, normal   | 140   | E-6/K | ISO 11359-1/-2 |

| Electrical Properties      | Value | Unit | Test Standard |
|----------------------------|-------|------|---------------|
| <b>ISO Data</b>            |       |      |               |
| Comparative tracking index | 600   | -    | IEC 60112     |

| Other Properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| <b>ISO Data</b>  |       |                   |               |
| Density          | 1400  | kg/m <sup>3</sup> | ISO 1183      |

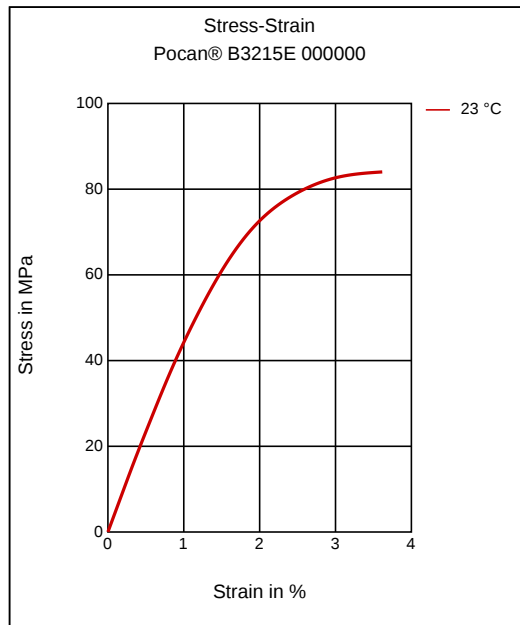
| Test specimen production            | Value | Unit | Test Standard |
|-------------------------------------|-------|------|---------------|
| <b>ISO Data</b>                     |       |      |               |
| Injection Molding, melt temperature | 260   | °C   | ISO 294       |
| Injection Molding, mold temperature | 80    | °C   | ISO 294       |

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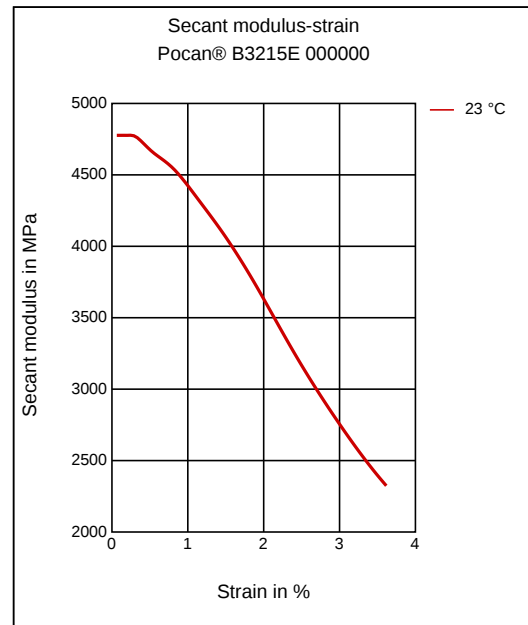
Envalior

## Diagrams

### Stress-strain



### Secant modulus-strain



## Characteristics

### Processing

Injection Molding

### Delivery form

Pellets

### Special Characteristics

Electrically Conductive, Impact modified, Heat aging stabilized

## Injection Molding

### PREPROCESSING

Residual moisture content: 0.00 - 0.02 %

Drying temperature circulating air dryer: 120 °C

Drying time circulating air dryer: 4 - 8 h

### PROCESSING

Melt temperature (Tmin - Tmax): 250 - 270 °C

Mold temperature: 80 - 100 °C