

**Pocan® T3150XF 000000**  
 (PBT+PET)-GF55

Envalior

Injection Molding, 55% Glass Reinforced, Improved flow, Low Warpage

ISO 1043 (PBT+PET)-GF55

| Rheological properties      | Value | Unit      | Test Standard   |
|-----------------------------|-------|-----------|-----------------|
| <b>ISO Data</b>             |       |           |                 |
| Melt volume-flow rate, MVR  | 30    | cm³/10min | ISO 1133        |
| Temperature                 | 270   | °C        | -               |
| Load                        | 5     | kg        | -               |
| Molding shrinkage, parallel | 0.3   | %         | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 0.8   | %         | ISO 294-4, 2577 |

| Mechanical Properties                   | Value | Unit  | Test Standard |
|-----------------------------------------|-------|-------|---------------|
| <b>ISO Data</b>                         |       |       |               |
| Tensile Modulus                         | 18500 | MPa   | ISO 527       |
| Stress at Break                         | 160   | MPa   | ISO 527       |
| Strain at Break                         | 1.5   | %     | ISO 527       |
| Impact Strength (Charpy), +23°C         | 50    | kJ/m² | ISO 179/1eU   |
| Impact Strength (Charpy), -30°C         | 50    | kJ/m² | ISO 179/1eU   |
| Notched Impact Strength (Charpy), +23°C | 10    | kJ/m² | ISO 179/1eA   |
| Notched Impact Strength (Charpy), -30°C | 10    | kJ/m² | ISO 179/1eA   |

| Thermal Properties                          | Value | Unit  | Test Standard  |
|---------------------------------------------|-------|-------|----------------|
| <b>ISO Data</b>                             |       |       |                |
| Temp. of deflection under load (1.80 MPa)   | 210   | °C    | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa)   | 230   | °C    | ISO 75-1/-2    |
| Coeff. of Linear Therm. Expansion, parallel | 10    | E-6/K | ISO 11359-1/-2 |
| Coeff. of Linear Therm. Expansion, normal   | 60    | E-6/K | ISO 11359-1/-2 |

| Electrical Properties      | Value | Unit | Test Standard |
|----------------------------|-------|------|---------------|
| <b>ISO Data</b>            |       |      |               |
| Comparative tracking index | 425   | -    | IEC 60112     |

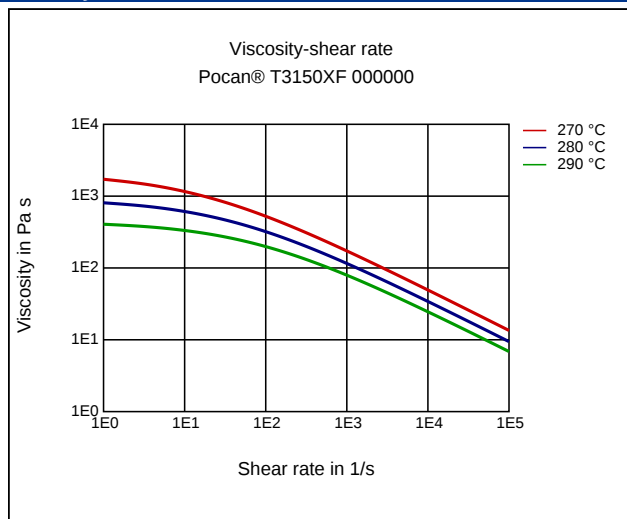
| Other Properties | Value | Unit  | Test Standard |
|------------------|-------|-------|---------------|
| <b>ISO Data</b>  |       |       |               |
| Density          | 1770  | kg/m³ | ISO 1183      |

| Test specimen production            | Value | Unit | Test Standard |
|-------------------------------------|-------|------|---------------|
| <b>ISO Data</b>                     |       |      |               |
| Injection Molding, melt temperature | 280   | °C   | ISO 294       |
| Injection Molding, mold temperature | 90    | °C   | ISO 294       |

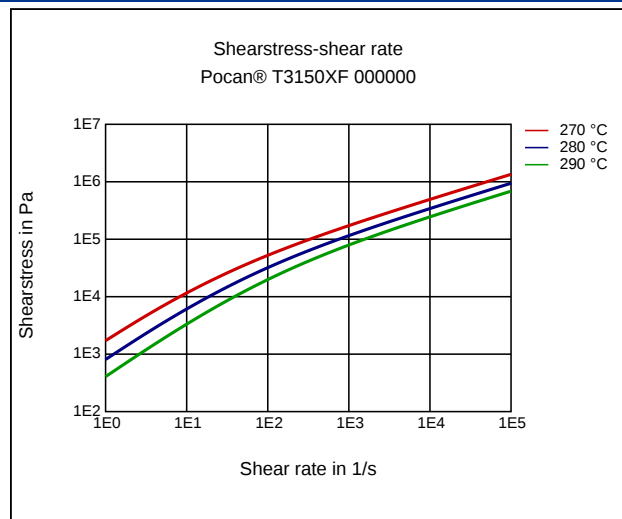
| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature                    | 120       | °C   | -             |
| Pre-drying - Time                           | 4 - 8     | h    | -             |
| Processing humidity                         | ≤0.02     | %    | -             |
| Melt temperature                            | 270 - 290 | °C   | -             |
| Mold temperature                            | 80 - 100  | °C   | -             |

## Diagrams

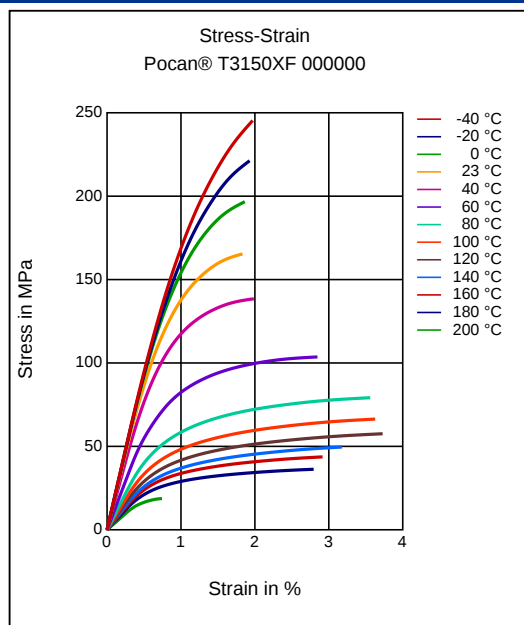
### Viscosity-shear rate



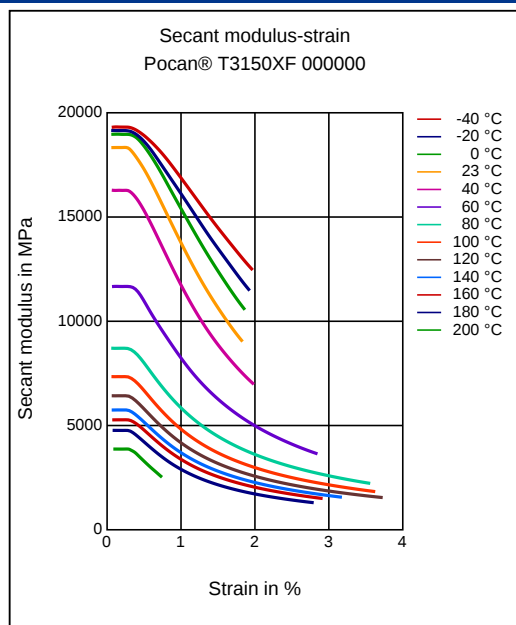
### Shearstress-shear rate



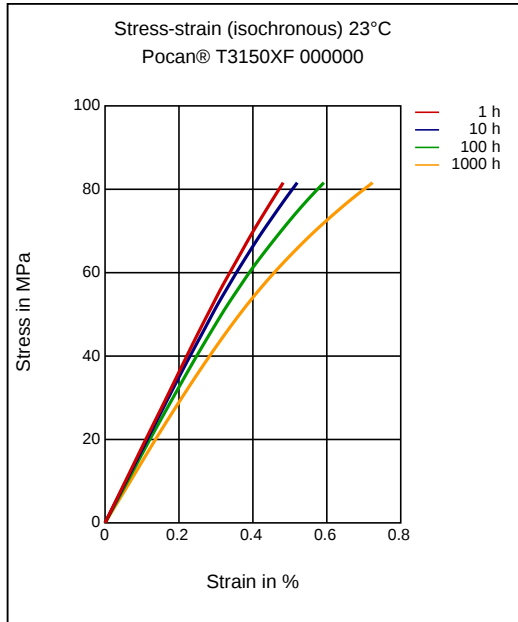
### Stress-strain



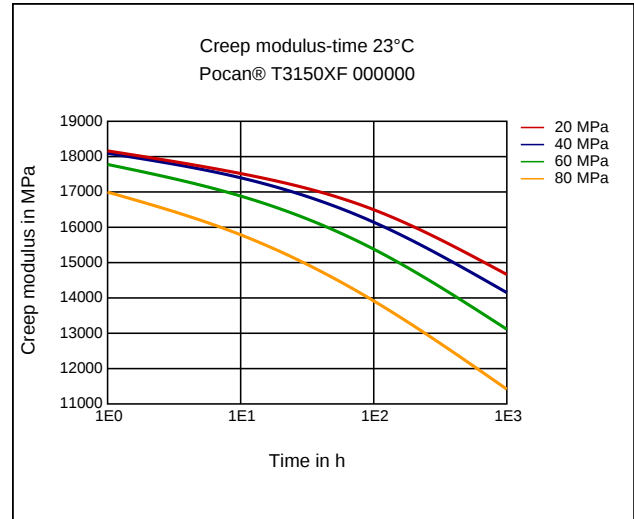
### Secant modulus-strain



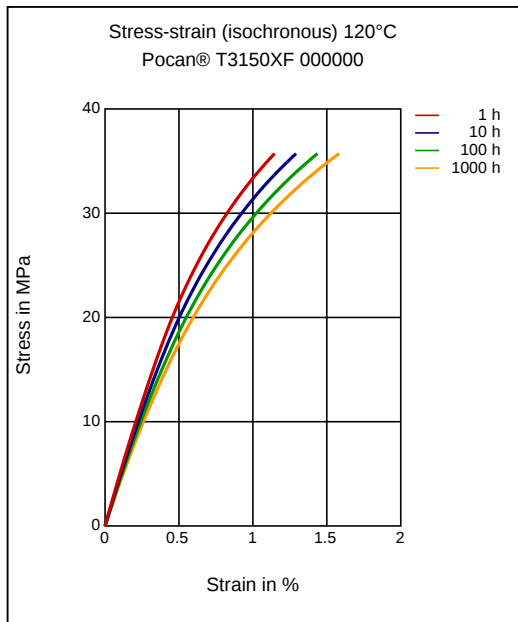
### Stress-strain (isochronous) 23 °C



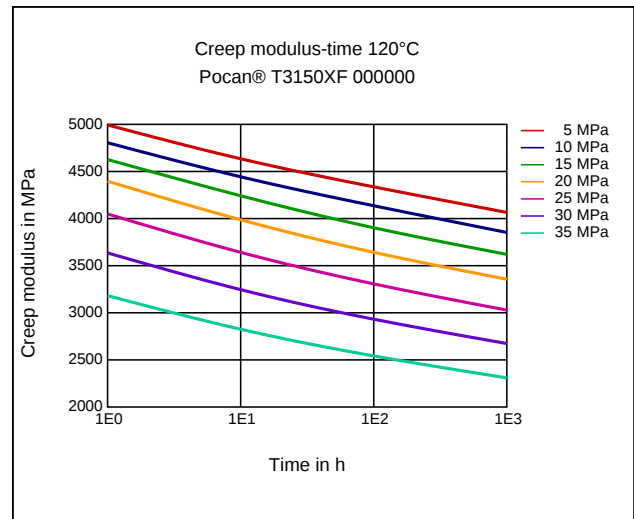
### Creep modulus-time 23 °C



### Stress-strain (isochronous) 120 °C



### Creep modulus-time 120 °C



## Characteristics

### Processing

Injection Molding

### Delivery form

Pellets

### Injection Molding

PREPROCESSING

Residual moisture content: 0.00 - 0.02 %

### Special Characteristics

Heat aging stabilized

### Features

Low Warpage

Drying temperature circulating air dryer: 120 °C

Drying time circulating air dryer: 4 - 8 h

#### PROCESSING

Melt temperature (Tmin - Tmax): 270 - 290 °C

Mold temperature: 80 - 100 °C

#### Disclaimer

##### Liability Exclusion

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