

**Terblend® N NG-02 EF**  
(ABS+PA6)-GF8

INEOS Styrolution

Terblend® N,NG-02EF is a blend of ABS with PA 6, provides very good mechanical properties, a high melt flow and very good chemical resistance provided by the polyamide component. Parts from Terblend® NG-02EF have acoustic dampening properties and show in unpainted, textured surfaces a nice matt appearance. Terblend® N NG-02EF is a low emission 8% glass fiber reinforced "Enhanced Flow" grade, containing also a powerful UV package. The reinforcement provides a higher heat performance and is invisible in combination with most automotive surface textures.

| Rheological properties     | dry / cond | Unit                   | Test Standard |
|----------------------------|------------|------------------------|---------------|
| <b>ISO Data</b>            |            |                        |               |
| Melt volume-flow rate, MVR | 40 / *     | cm <sup>3</sup> /10min | ISO 1133      |
| Temperature                | 240 / *    | °C                     | -             |
| Load                       | 10 / *     | kg                     | -             |

| Mechanical Properties                   | dry / cond  | Unit              | Test Standard |
|-----------------------------------------|-------------|-------------------|---------------|
| <b>ISO Data</b>                         |             |                   |               |
| Tensile Modulus                         | 3100 / 2400 | MPa               | ISO 527       |
| Yield stress                            | 55 / 40     | MPa               | ISO 527       |
| Yield strain                            | 3 / 4       | %                 | ISO 527       |
| Nominal strain at break                 | 6 / 12      | %                 | ISO 527       |
| Impact Strength (Charpy), +23°C         | 30 / -      | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Impact Strength (Charpy), -30°C         | 35 / -      | kJ/m <sup>2</sup> | ISO 179/1eU   |
| Notched Impact Strength (Charpy), +23°C | 11 / -      | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Notched Impact Strength (Charpy), -30°C | 6 / -       | kJ/m <sup>2</sup> | ISO 179/1eA   |

| Thermal Properties                          | dry / cond | Unit  | Test Standard  |
|---------------------------------------------|------------|-------|----------------|
| <b>ISO Data</b>                             |            |       |                |
| Temp. of deflection under load (1.80 MPa)   | 97 / *     | °C    | ISO 75-1/-2    |
| Temp. of deflection under load (0.45 MPa)   | 171 / *    | °C    | ISO 75-1/-2    |
| Vicat softening temperature, 50°C/h 50N     | 118 / *    | °C    | ISO 306        |
| Coeff. of Linear Therm. Expansion, parallel | 60 / *     | E-6/K | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm Nom. Thickn.       | HB / *     | class | UL 94          |
| Thickness tested                            | 1.5 / *    | mm    | -              |
| UL recognition                              | yes / *    | -     | -              |

| Other Properties    | dry / cond | Unit              | Test Standard  |
|---------------------|------------|-------------------|----------------|
| <b>ISO Data</b>     |            |                   |                |
| Humidity absorption | 1.1 / *    | %                 | Sim. to ISO 62 |
| Density             | 1120 / -   | kg/m <sup>3</sup> | ISO 1183       |

| Rheological calculation properties | Value | Unit    | Test Standard |
|------------------------------------|-------|---------|---------------|
| <b>ISO Data</b>                    |       |         |               |
| Thermal Conductivity of Melt       | 0.25  | W/(m K) | -             |

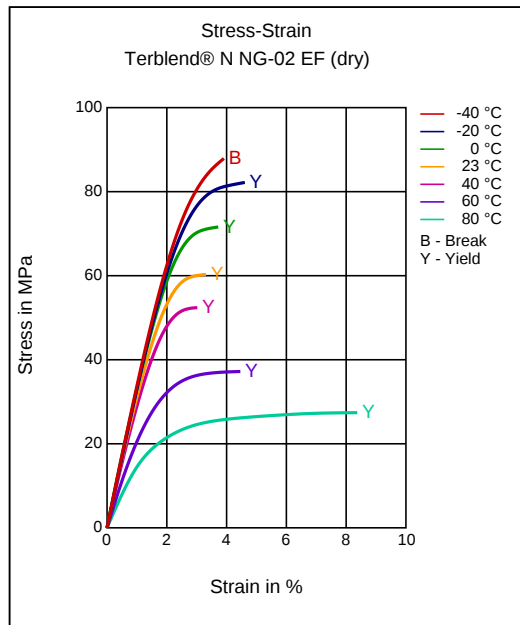
| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature                    | 80        | °C   | -             |
| Pre-drying - Time                           | 2 - 4     | h    | -             |
| Melt temperature                            | 240 - 270 | °C   | -             |
| Mold temperature                            | 40 - 80   | °C   | -             |

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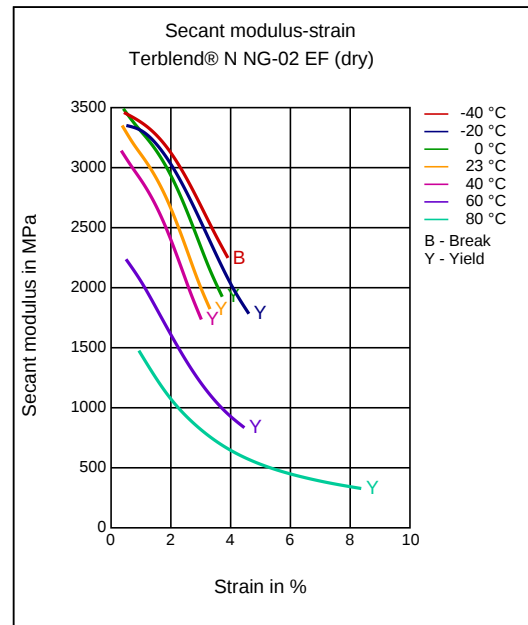
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### Diagrams

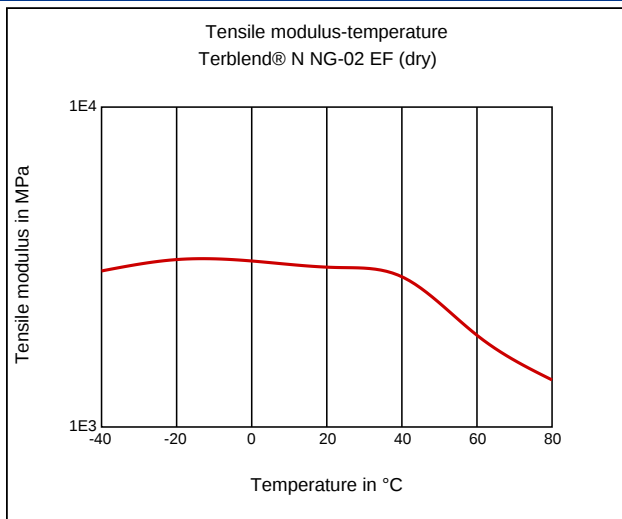
#### Stress-strain



#### Secant modulus-strain



#### Tensile Modulus-Temperature



### Characteristics

#### Processing

Injection Molding, Profile Extrusion, Sheet Extrusion

#### Delivery form

Pellets

#### Special Characteristics

Light stabilized or stable to light, UV stabilized, Heat aging stabilized

#### Injection Molding

##### PREPROCESSING

Pre-drying Temperature: 80 - 90 °C

Pre-drying Time: 4 - 8h

##### PROCESSING

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Melt temperature, range: 240 - 270°C

Mold temperature, range: 40 - 80°C