


**Technylstar™ SX 218 V50**

PA6-GF50

Solvay Engineering Plastics

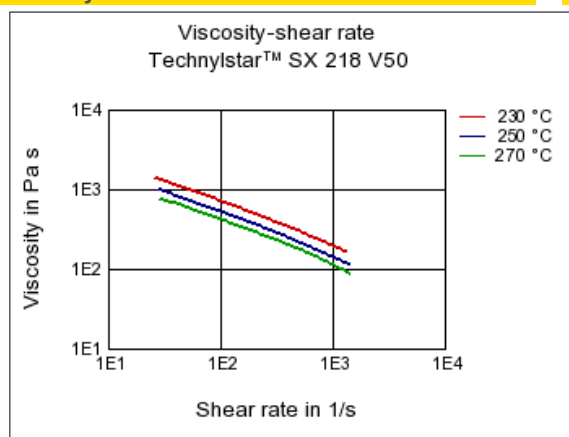
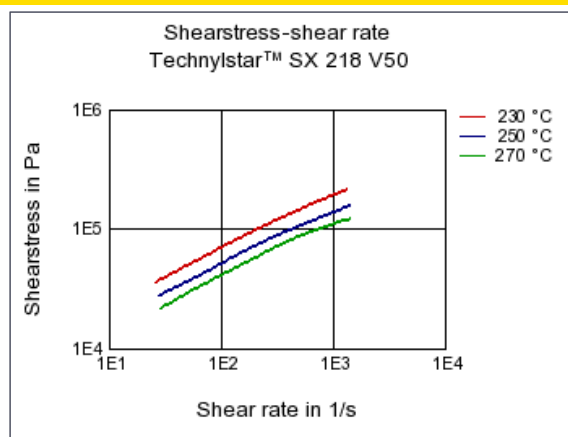
**Product Texts**

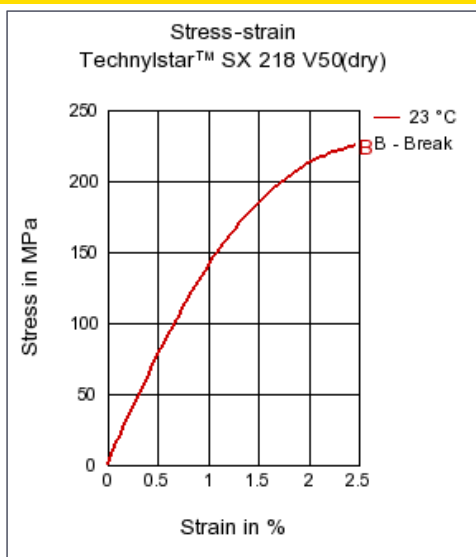
 Technylstar polyamide reinforced with 50% of glass fibre  
 Characterized by high fluidity of the melt.

| Mechanical properties                  | dry / cond    | Unit  | Test Standard |
|----------------------------------------|---------------|-------|---------------|
| <b>ISO Data</b>                        |               |       |               |
| Tensile Modulus                        | 17000 / 11600 | MPa   | ISO 527-1/-2  |
| Stress at break                        | 230 / -       | MPa   | ISO 527-1/-2  |
| Strain at break                        | 2.6 / -       | %     | ISO 527-1/-2  |
| Charpy impact strength (+23°C)         | 85 / -        | kJ/m² | ISO 179/1eU   |
| Charpy notched impact strength (+23°C) | 15 / -        | kJ/m² | ISO 179/1eA   |

| Thermal properties                        | dry / cond | Unit  | Test Standard   |
|-------------------------------------------|------------|-------|-----------------|
| <b>ISO Data</b>                           |            |       |                 |
| Melting temperature (10°C/min)            | 222 / *    | °C    | ISO 11357-1/-3  |
| Temp. of deflection under load (1.80 MPa) | 210 / *    | °C    | ISO 75-1/-2     |
| Burning behav. at thickness h             | HB / *     | class | IEC 60695-11-10 |
| Thickness tested                          | 1.6 / *    | mm    | IEC 60695-11-10 |

| Other properties | dry / cond | Unit  | Test Standard |
|------------------|------------|-------|---------------|
| <b>ISO Data</b>  |            |       |               |
| Density          | 1550 / -   | kg/m³ | ISO 1183      |

**Diagrams**
**Viscosity-shear rate**

**Shearstress-shear rate**


**Stress-strain**

**Characteristics**
**Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat

**Other text information**
**Injection Molding**
**PROCESSING**

Melt temperature: 220°C

Mold temperature: 80°C

**Chemical Media Resistance**
**Acids**

- ☺ Acetic Acid (5% by mass) (23°C)
- ☺ Citric Acid solution (10% by mass) (23°C)
- ☺ Lactic Acid (10% by mass) (23°C)
- ☹ Hydrochloric Acid (36% by mass) (23°C)
- ☹ Nitric Acid (40% by mass) (23°C)
- ☹ Sulfuric Acid (38% by mass) (23°C)
- ☹ Sulfuric Acid (5% by mass) (23°C)
- ☹ Chromic Acid solution (40% by mass) (23°C)

**Bases**

- ☹ Sodium Hydroxide solution (35% by mass) (23°C)
- ☺ Sodium Hydroxide solution (1% by mass) (23°C)
- ☺ Ammonium Hydroxide solution (10% by mass) (23°C)

**Alcohols**

- ☹ Isopropyl alcohol (23°C)
- ☹ Methanol (23°C)
- ☹ Ethanol (23°C)

**Hydrocarbons**

- ☺ n-Hexane (23°C)
- ☺ Toluene (23°C)
- ☺ iso-Octane (23°C)

**Ketones**

 Acetone (23°C)

**Ethers**
 Diethyl ether (23°C)

**Mineral oils**
 SAE 10W40 multigrade motor oil (23°C)

**Standard Fuels**
 Standard fuel without alcohol (pref. ISO 1817 Liquid C) (23°C)

 Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23°C)

**Salt solutions**
 Zinc Chloride solution (50% by mass) (23°C)

**Other**
 Ethylene Glycol (50% by mass) in water (108°C)

 50% Oleic acid + 50% Olive Oil (23°C)

 Water (23°C)

 Deionized water (90°C)