


Technyl® C 246 V30

PA6-GF30

Solvay Engineering Plastics

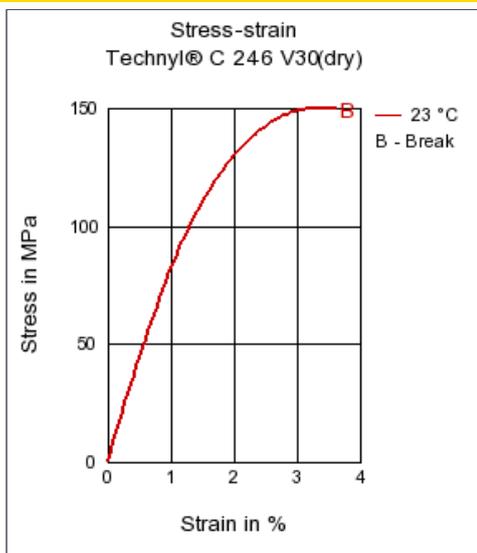
Product Texts

Polyamide PA6, reinforced with 30 % of glass fibre. high impact strength, for injection moulding.

| Mechanical properties | dry / cond | Unit | Test Standard |
|---|-------------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 8200 / 5400 | MPa | ISO 527-1/-2 |
| Stress at break | 140 / - | MPa | ISO 527-1/-2 |
| Strain at break | 4 / - | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | 86 / - | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 18 / - | kJ/m ² | ISO 179/1eA |
| Thermal properties | | | |
| ISO Data | | | |
| Melting temperature (10°C/min) | 222 / * | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 195 / * | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 30 / * | E-6/K | ISO 11359-1/-2 |
| Burning behav. at thickness h | HB / * | class | IEC 60695-11-10 |
| Thickness tested | 1.6 / * | mm | IEC 60695-11-10 |
| Electrical properties | | | |
| ISO Data | | | |
| Relative permittivity, 1MHz | 3.7 / 4.5 | - | IEC 60250 |
| Dissipation factor, 1MHz | 210 / - | E-4 | IEC 60250 |
| Volume resistivity | >1E13 / - | Ohm*m | IEC 60093 |
| Surface resistivity | * / 1E13 | Ohm | IEC 60093 |
| Electric strength | - / 21 | kV/mm | IEC 60243-1 |
| Other properties | | | |
| ISO Data | | | |
| Density | 1320 / - | kg/m ³ | ISO 1183 |

Diagrams

Stress-strain



Characteristics

Processing

Injection Molding

Other text information

Injection Molding

PROCESSING

Melt temperature: 225°C

Mold temperature: 70°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)