


Technyl® C 246 V30

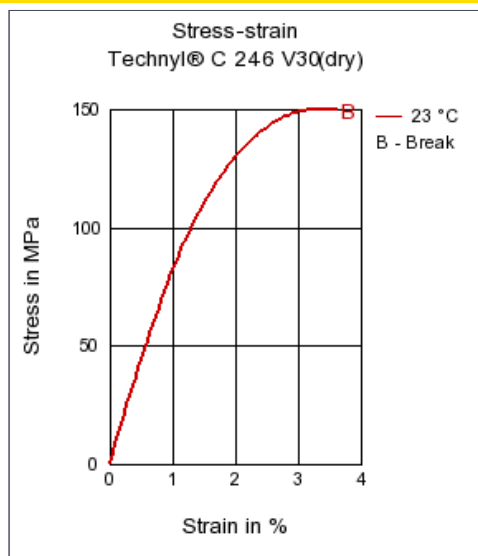
PA6-GF30

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)