


**Technyl® C 30H1 V30**

PA6-GF30 FR

Solvay Engineering Plastics

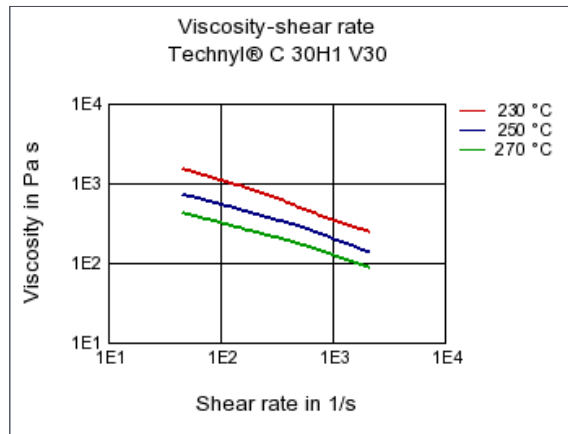
**Product Texts**

 Polyamide 6, 30 % glass fibre reinforced, heat stabilised  
 flame retardant without phosphorus UL 94 V0 rated at 0.8 mm wall thickness

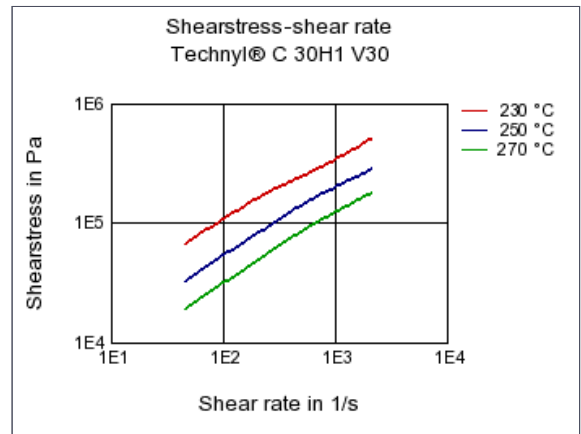
Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	11400 / 8050	MPa	ISO 527-1/-2
Stress at break	114 / -	MPa	ISO 527-1/-2
Strain at break	1.8 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	37 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / -	kJ/m²	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	197 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
<b>Electrical properties</b>			
<b>ISO Data</b>			
Relative permittivity, 1MHz	3.8 / 4.5	-	IEC 60250
Dissipation factor, 1MHz	210 / -	E-4	IEC 60250
Volume resistivity	>1E13 / -	Ohm*m	IEC 60093
Surface resistivity	* / 1E14	Ohm	IEC 60093
Comparative tracking index	400 / -	-	IEC 60112
<b>Other properties</b>			
<b>ISO Data</b>			
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1550 / -	kg/m³	ISO 1183

## Diagrams

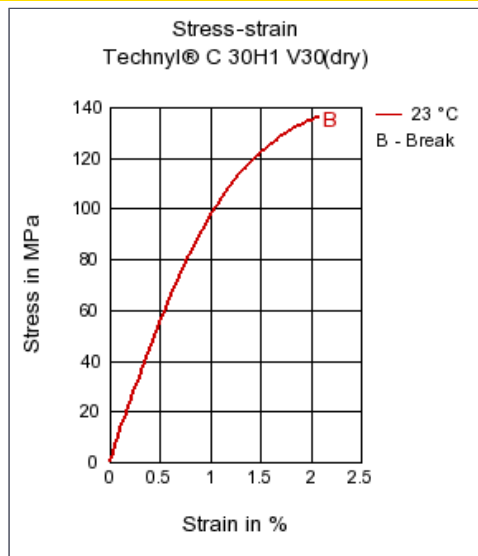
### Viscosity-shear rate



### Shearstress-shear rate



### Stress-strain



## Characteristics

### Processing

Injection Molding

### Special Characteristics

Flame retardant

## Other text information

### Injection Molding

#### PROCESSING

Melt temperature: 230°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)