

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
ISO Data			
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/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / -	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
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

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
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

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1550 / -	kg/m ³	ISO 1183

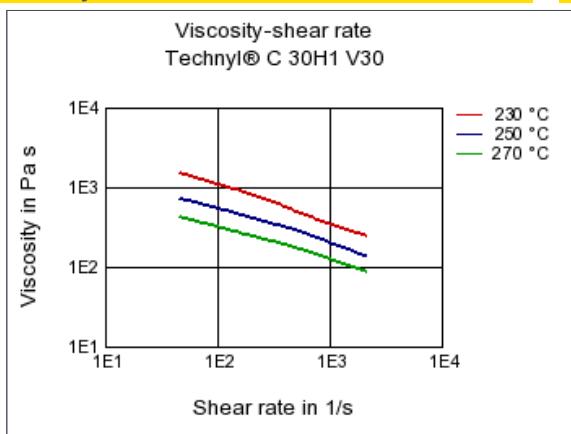
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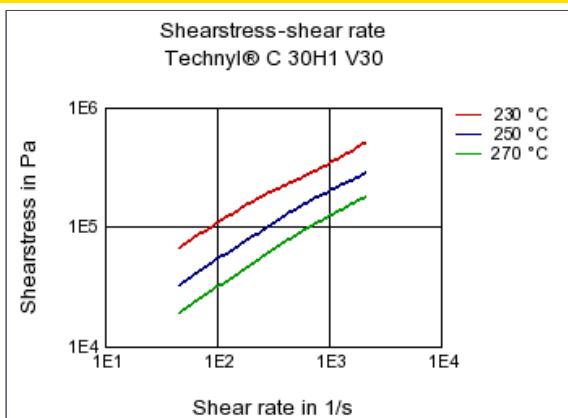
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Diagrams

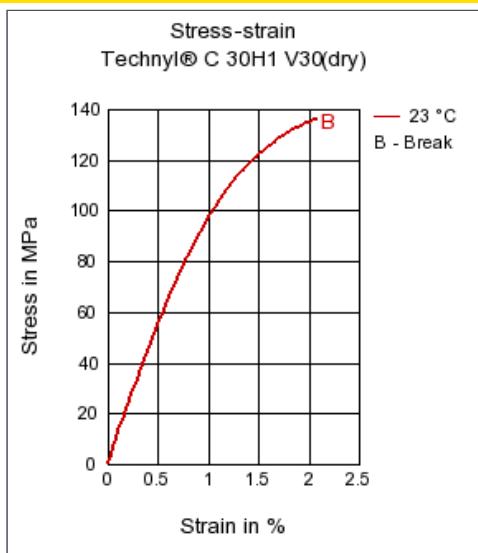
Viscosity-shear rate



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)