


Technylstar™ S 60G1 V30

PA6-GF30 FR

Solvay Engineering Plastics

Product Texts

Flame retardant Technylstar Polyamide reinforced with 30% of glass fibre. for injection moulding.

Mechanical properties

	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	12000 / 7000	MPa	ISO 527-1/-2
Stress at break	147 / -	MPa	ISO 527-1/-2
Strain at break	2.3 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	67 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / -	kJ/m ²	ISO 179/1eA

Thermal properties

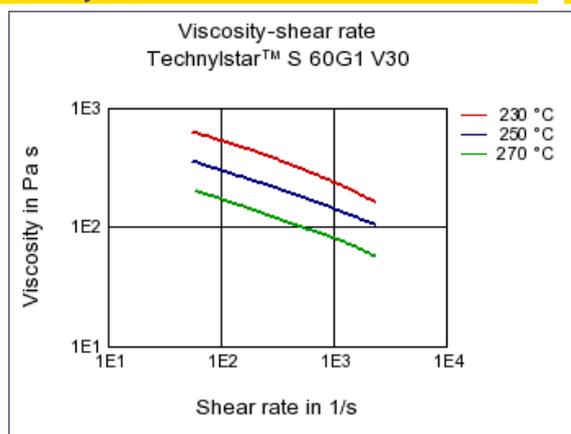
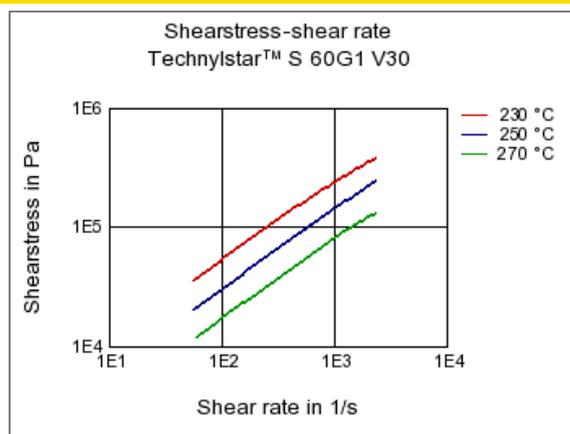
	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10

Electrical properties

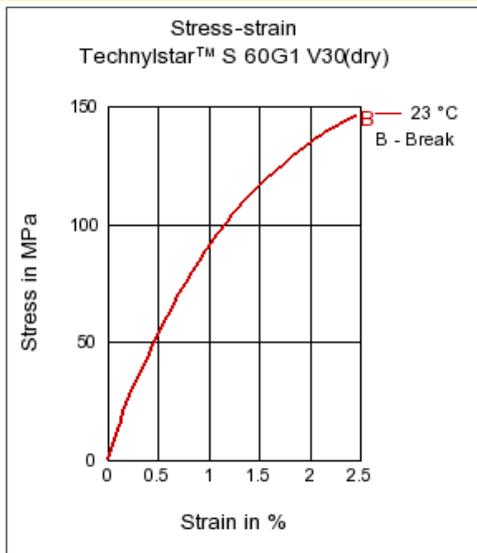
	dry / cond	Unit	Test Standard
ISO Data			
Comparative tracking index	600 / -	-	IEC 60112

Other properties

	dry / cond	Unit	Test Standard
ISO Data			
Density	1420 / -	kg/m ³	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: 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)