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/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / -	kJ/m²	ISO 179/1eA

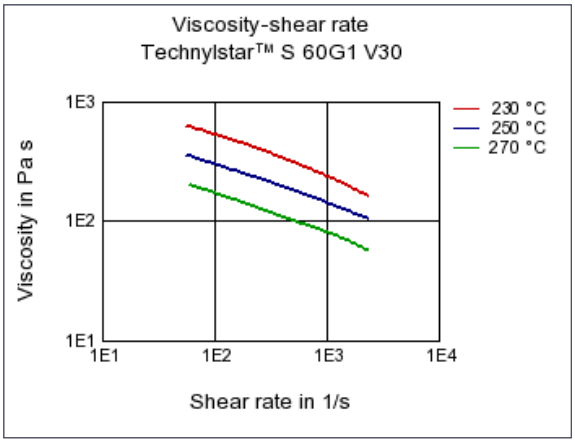
Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	205 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10

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

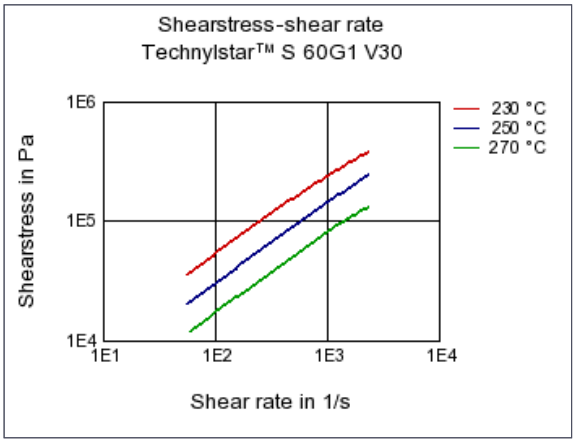
Other properties	dry / cond	Unit	Test Standard
ISO Data			
Density	1420 / -	kg/m³	ISO 1183

Diagrams

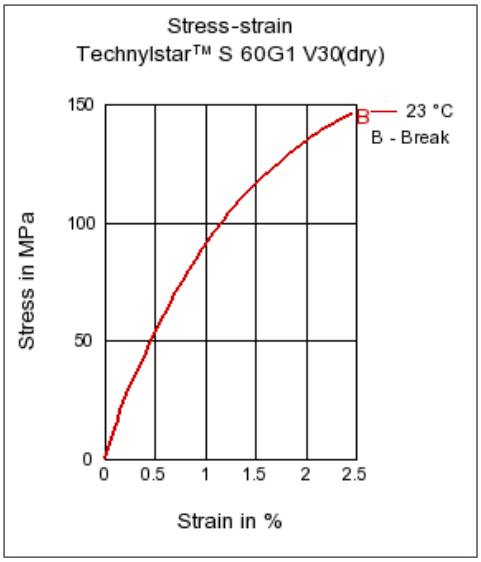
Viscosity-shear rate



Shearstress-shear rate



Stress-strain



Characteristics

Processing
Injection Molding

Special Characteristics
Flame retardant

Other text information

Injection Molding

PROCESSING
Melt temperature: 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)