Technyl® A 238 V13

PA66-GF13 Solvay Engineering Plastics

Product Texts

Polyamide 6.6, 13 % glass fibre reinforced, heat stabilised
high impact strength elastomer modified

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	5500 / 3650	MPa	ISO 527-1/-2
Yield stress	100 / 60	MPa	ISO 527-1/-2
Yield strain	6 / 8	%	ISO 527-1/-2
Nominal strain at break	8 / 10	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / -	kJ/m²	ISO 179/1eA

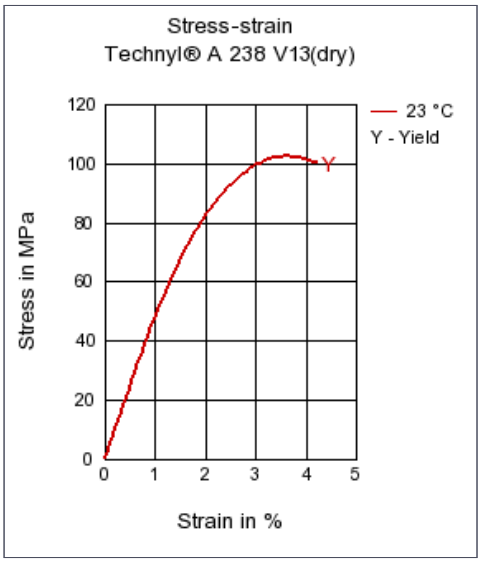
Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	263 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	228 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	50 / *	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Humidity absorption	0.75 / *	%	Sim. to ISO 62
Density	1190 / -	kg/m³	ISO 1183

Test specimen production	Value	Unit	Test Standard
ISO Data			
Injection Molding, melt temperature	245	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 10724

Diagrams

Stress-strain



Characteristics

Processing
Injection Molding

Special Characteristics
Heat stabilized or stable to heat

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)