


**Technyl® A 238 V13**

PA66-GF13

Solvay Engineering Plastics

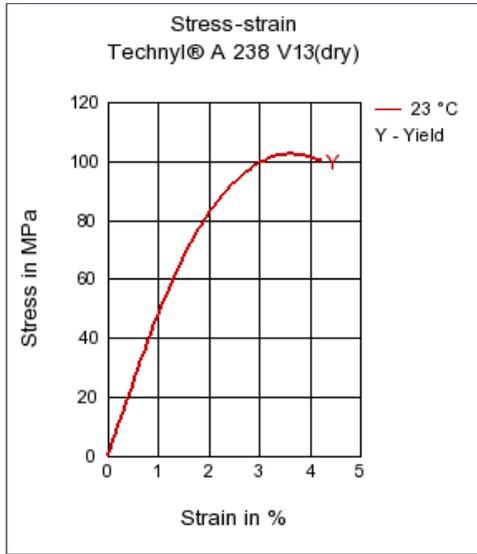
**Product Texts**

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

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
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/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
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
<b>Other properties</b>			
<b>ISO Data</b>			
Humidity absorption	0.75 / *	%	Sim. to ISO 62
Density	1190 / -	kg/m <sup>3</sup>	ISO 1183
<b>Test specimen production</b>			
<b>ISO Data</b>			
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)