


**Technyl® A 402 H1**

PA66

Solvay Engineering Plastics

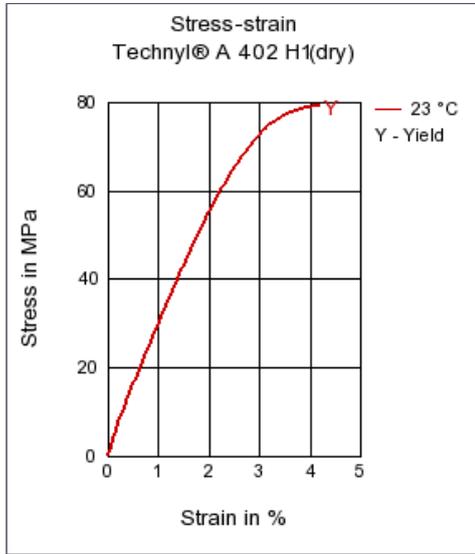
**Product Texts**

 Unreinforced polyamide 6.6, heat stabilised  
 for extrusion and injection moulding

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	3100 / 1300	MPa	ISO 527-1/-2
Yield stress	80 / 60	MPa	ISO 527-1/-2
Yield strain	8 / 30	%	ISO 527-1/-2
Nominal strain at break	>50 / >50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Melting temperature (10°C/min)	263 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	75 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	70 / *	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
Oxygen index	27 / *	%	ISO 4589-1/-2
<b>Electrical properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Relative permittivity, 1MHz	3 / 4	-	IEC 60250
Dissipation factor, 1MHz	200 / -	E-4	IEC 60250
Volume resistivity	>1E13 / 1E13	Ohm*m	IEC 60093
Surface resistivity	* / 1E11	Ohm	IEC 60093
Electric strength	27 / 26	kV/mm	IEC 60243-1
Comparative tracking index	575 / -	-	IEC 60112
<b>Other properties</b>			
<b>ISO Data</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
Density	1140 / -	kg/m <sup>3</sup>	ISO 1183

Diagrams

Stress-strain



Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Other text information

Injection Molding

PROCESSING

Melt temperature: 260°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)