

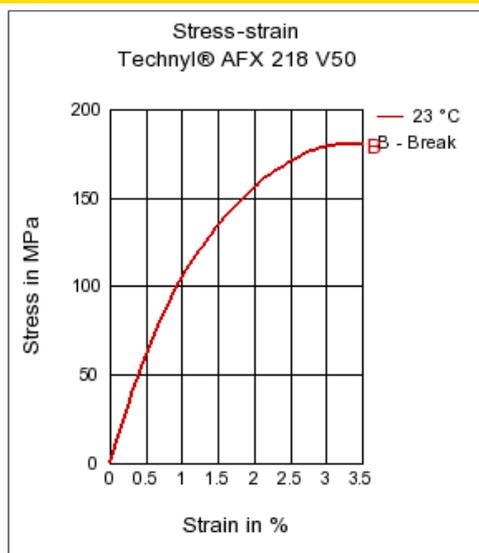
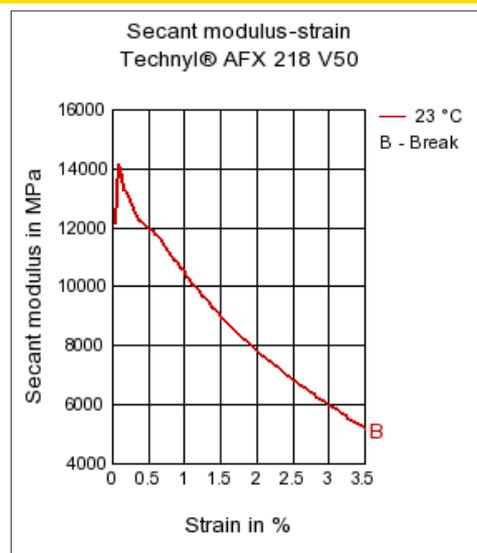

**Technyl® AFX 218 V50**

PA66-GF50

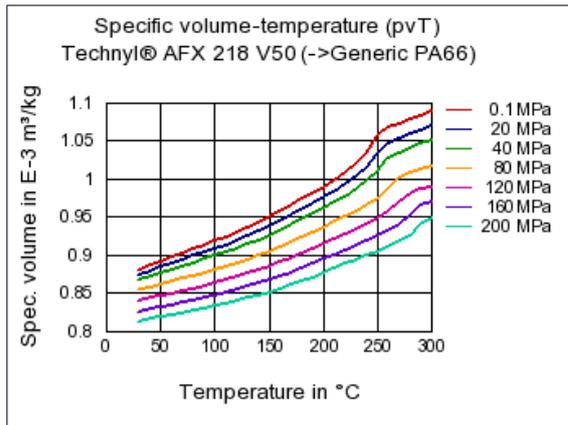
Solvay Engineering Plastics

**Product Texts**
High Flow Polyamide 66 reinforced with 50% of glass fibers, heat resistant, for injection molding.

Rheological properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	0.4 / *	%	ISO 294-4, 2577
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Tensile Modulus	17000 / 12500	MPa	ISO 527-1/-2
Stress at break	255 / 180	MPa	ISO 527-1/-2
Strain at break	2.5 / 3.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	100 / 104	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
<b>ISO Data</b>			
Melting temperature (10°C/min)	264 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	256 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
<b>Other properties</b>			
<b>ISO Data</b>			
Humidity absorption	0.6 / *	%	Sim. to ISO 62
Density	1570 / -	kg/m <sup>3</sup>	ISO 1183

**Diagrams**
**Stress-strain**

**Secant modulus-strain**


Specific volume-temperature (pvT)



Other text information

Injection Molding

The material is supplied in airtight bags, ready for use. In the case that the virgin material has absorbed moisture, it must be dried to a final moisture content less than 0.2% with a dehumidified air drying equipment at approx. 80°C.

Recommended moulding conditions:

-Barrel temperatures:

-feed zone

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 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)