

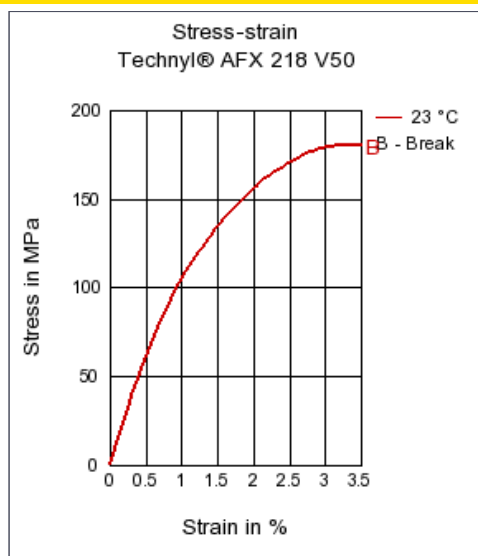
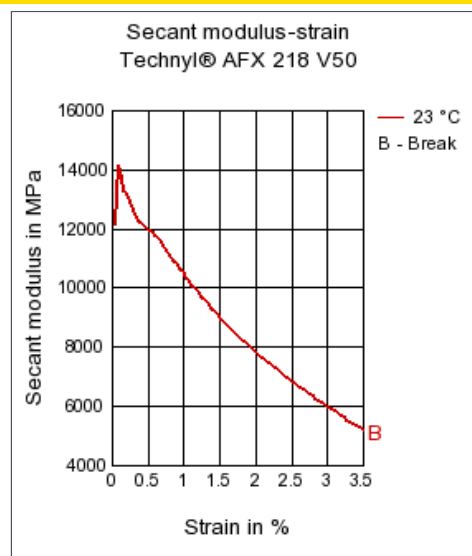

**Technyl® AFX 218 V50**

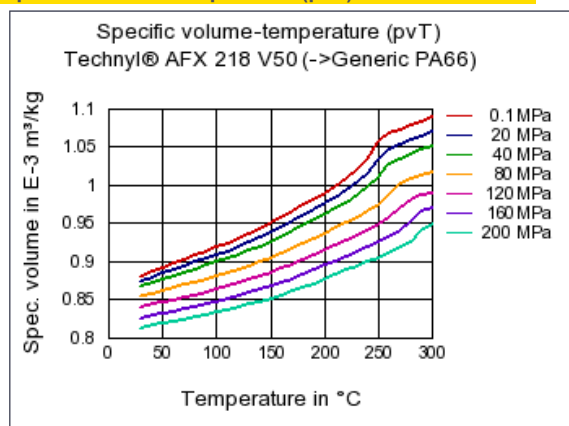
PA66-GF50

Solvay Engineering Plastics

**Product Texts**
High Flow Polyamide 66 reinforced with 50% of glass fibers, heat stabilized, 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 original 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)