

**Technyl® B 218L V20 BLACK 44 N**

PA666-GF20

Solvay Engineering Plastics

**Product Texts**

Copolyamide 6.6/6, 20 % glass fibre reinforced, heat stabilised  
 excellent UV stabilised

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Tensile Modulus	7000 / 4500	MPa	ISO 527-1/-2
Stress at break	140 / -	MPa	ISO 527-1/-2
Strain at break	3 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	45 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / -	kJ/m <sup>2</sup>	ISO 179/1eA

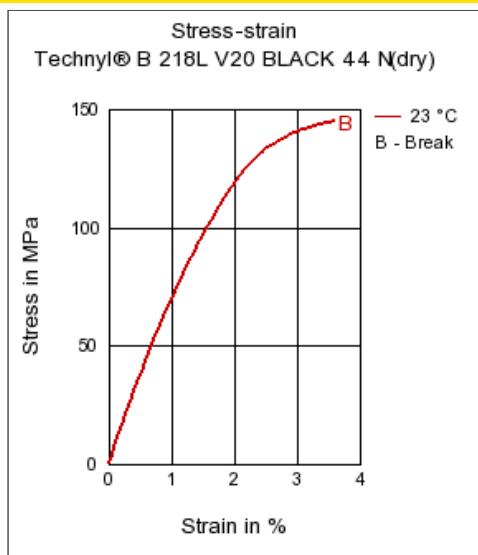
<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Melting temperature (10°C/min)	242 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	230 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	35 / *	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
Oxygen index	23 / *	%	ISO 4589-1/-2

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Dissipation factor, 1MHz	100 / -	E-4	IEC 60250
Volume resistivity	>1E13 / 1E13	Ohm*m	IEC 60093
Surface resistivity	* / 3E13	Ohm	IEC 60093
Electric strength	32 / 28	kV/mm	IEC 60243-1
Comparative tracking index	450 / -	-	IEC 60112

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Humidity absorption	1.2 / *	%	Sim. to ISO 62
Density	1290 / -	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: 250°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)

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**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)