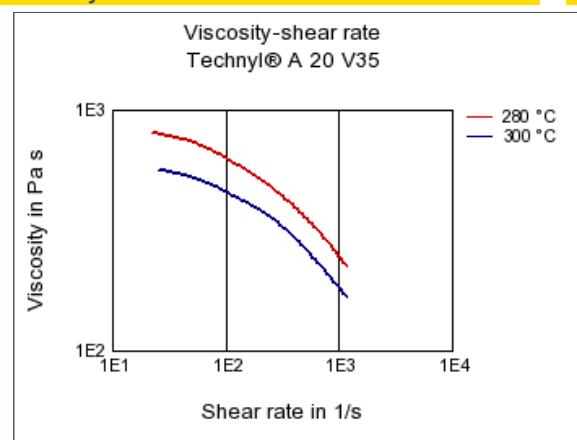




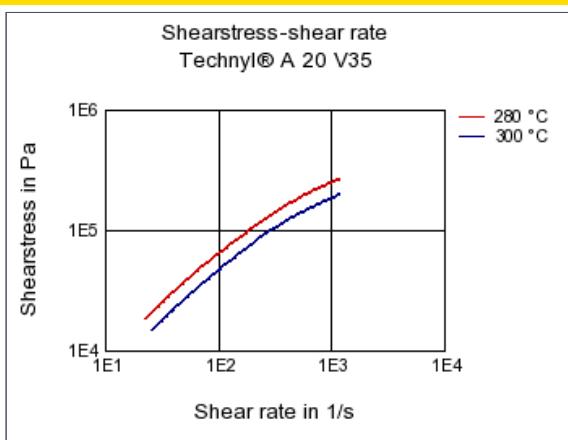
<b>Technyl® A 20 V35</b> PA66-GF35 FR		Solvay Engineering Plastics			
<b>Product Texts</b>					
Polyamide 6.6, 35 % glass fibre reinforced flame retardant with red phosphorus, halogen free UL 94 V0 rated at 0.8 mm wall thickness					
<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>		
<b>ISO Data</b>					
Tensile Modulus	12000 / 10000	MPa	ISO 527-1/-2		
Stress at break	170 / -	MPa	ISO 527-1/-2		
Strain at break	2 / -	%	ISO 527-1/-2		
Charpy impact strength (+23°C)	65 / -	kJ/m <sup>2</sup>	ISO 179/1eU		
Charpy notched impact strength (+23°C)	10 / -	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)	263 / *	°C	ISO 11357-1/-3		
Temp. of deflection under load (1.80 MPa)	255 / *	°C	ISO 75-1/-2		
Temp. of deflection under load (0.45 MPa)	255 / *	°C	ISO 75-1/-2		
Coeff. of linear therm. expansion, parallel	25 / *	E-6/K	ISO 11359-1/-2		
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10		
Thickness tested	1.6 / *	mm	IEC 60695-11-10		
Oxygen index	30.5 / *	%	ISO 4589-1/-2		
<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>		
<b>ISO Data</b>					
Relative permittivity, 1MHz	3.4 / 5	-	IEC 60250		
Dissipation factor, 1MHz	200 / -	E-4	IEC 60250		
Volume resistivity	1E13 / 1E11	Ohm*m	IEC 60093		
Surface resistivity	* / 1E12	Ohm	IEC 60093		
Electric strength	25 / 25	kV/mm	IEC 60243-1		
Comparative tracking index	375 / -	-	IEC 60112		
<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>		
<b>ISO Data</b>					
Water absorption	4.5 / *	%	Sim. to ISO 62		
Humidity absorption	1.4 / *	%	Sim. to ISO 62		
Density	1460 / -	kg/m <sup>3</sup>	ISO 1183		
<b>Test specimen production</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>		
<b>ISO Data</b>					
Injection Molding, melt temperature	220	°C	ISO 294		
Injection Molding, mold temperature	23	°C	ISO 10724		

## Diagrams

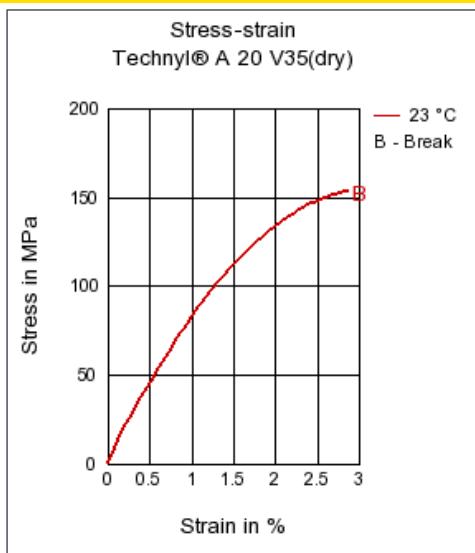
## Viscosity-shear rate



## Shearstress-shear rate



## Stress-strain



## Characteristics

## Processing

Injection Molding

## Special Characteristics

Flame retardant, Heat stabilized or stable to heat

## Other text information

## Injection Molding

Recommended moulding conditions :

Barrel temperatures :

- feed zone 270 - 275°C
- compression zone 275 - 280°C
- front zone 280 - 285°C

Mould: 60 at 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 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)