


Technyl® C 218 V15

PA6-GF15

Solvay Engineering Plastics

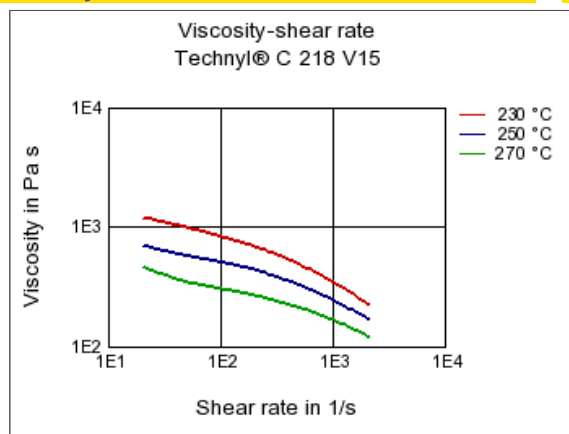
Product Texts

Polyamide 6, 15 % glass fibre reinforced, heat stabilised

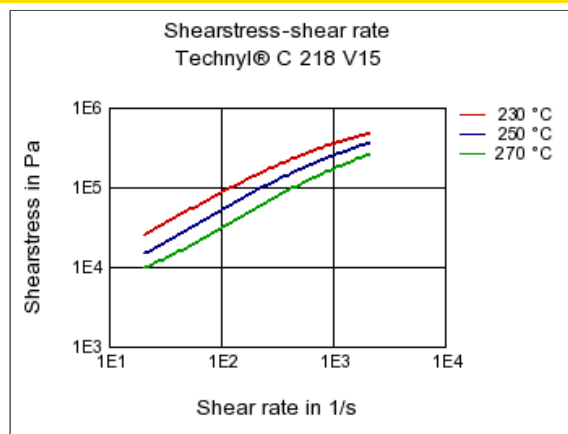
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	6100 / 2900	MPa	ISO 527-1/-2
Stress at break	120 / -	MPa	ISO 527-1/-2
Strain at break	4 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	42 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5.5 / -	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	55 / *	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	180 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	205 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	42 / *	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
Electrical properties			
ISO Data			
Relative permittivity, 1MHz	3.8 / 4.5	-	IEC 60250
Dissipation factor, 1MHz	200 / -	E-4	IEC 60250
Volume resistivity	1E13 / 1E9	Ohm*m	IEC 60093
Surface resistivity	* / 1E11	Ohm	IEC 60093
Electric strength	- / 22	kV/mm	IEC 60243-1
Comparative tracking index	475 / -	-	IEC 60112
Other properties			
ISO Data			
Humidity absorption	2.55 / *	%	Sim. to ISO 62
Density	1220 / -	kg/m ³	ISO 1183

Diagrams

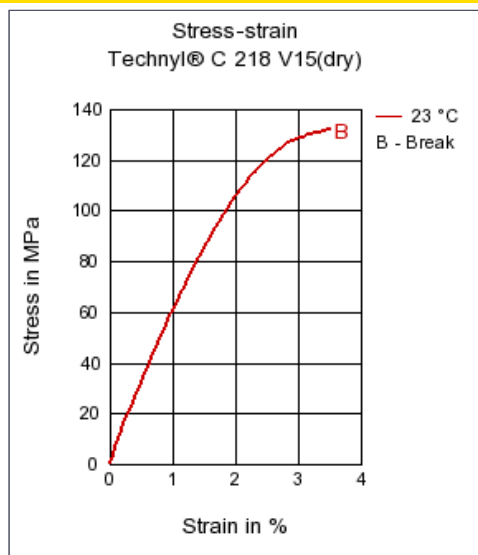
Viscosity-shear rate



Shearstress-shear rate



Stress-strain



Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Other text information

Injection Molding

PROCESSING

Melt temperature: 225°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)