


Technylstar™ S 218 MT40

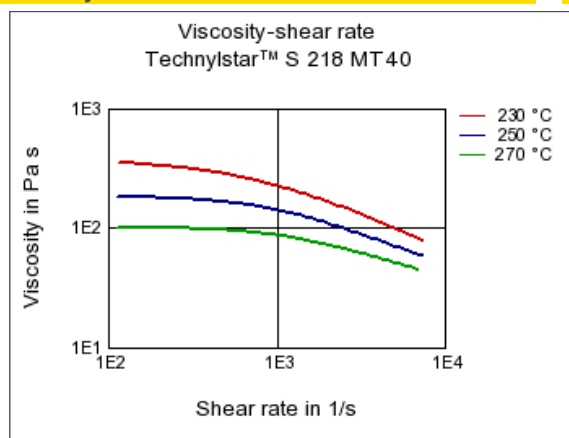
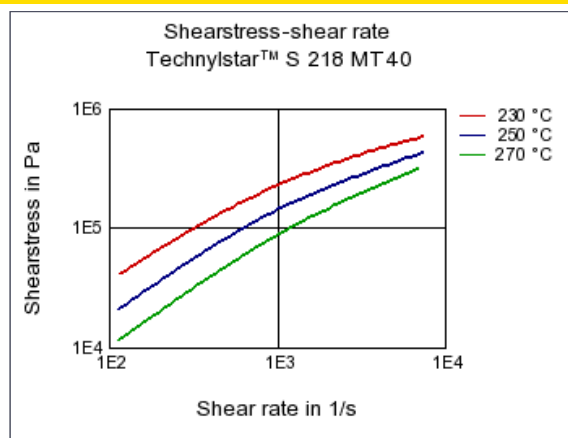
PA6-MD40

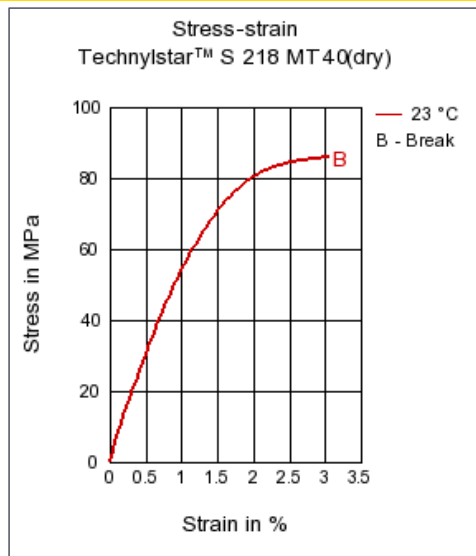
Solvay Engineering Plastics

Product Texts

 Technylstar Polyamide, 40% mineral filled
 Characterized by high fluidity of the melt.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	5800 / 2600	MPa	ISO 527-1/-2
Stress at break	90 / 55	MPa	ISO 527-1/-2
Strain at break	8 / 25	%	ISO 527-1/-2
Charpy impact strength (+23°C)	45 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / -	kJ/m²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	221 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	90 / *	°C	ISO 75-1/-2
Other properties			
ISO Data			
Density	1450 / -	kg/m³	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: 220°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)