



## Technylstar™ S 218 MT40

PA6-MD40

Solvay Engineering Plastics

## Product Texts

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

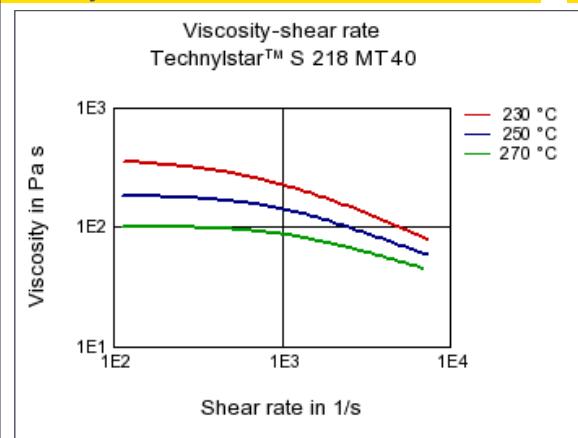
Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	5800 / 2600	MPa	ISO 527-1/-2
Stress at break	90 / 55	MPa	ISO 527-1/-2
Strain at break	8 / 25	%	ISO 527-1/-2
Charpy impact strength (+23°C)	45 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / -	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
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

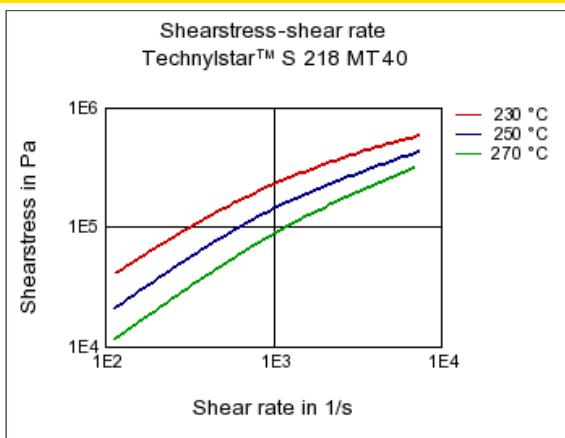
Other properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
Density	1450 / -	kg/m <sup>3</sup>	ISO 1183

## Diagrams

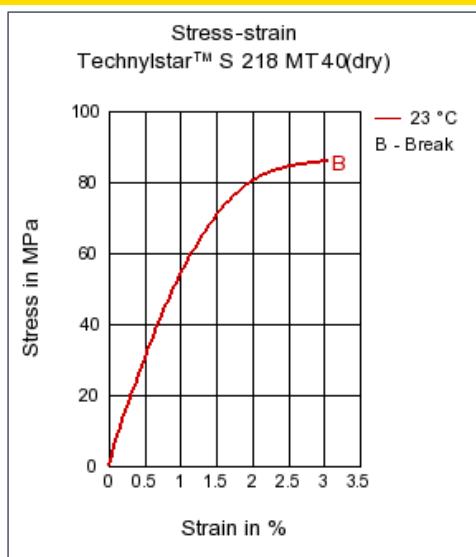
## Viscosity-shear rate



## 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

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 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)