

Technyl® A 208F

PA66

Solvay Engineering Plastics

Product Texts

Unreinforced polyamide PA66, heat stabilized, high fluidity, fast cycling grade, for injection molding.

TECHNYL A 208F offers three main advantages: excellent filling qualities, good long term thermal properties and is V2 rated under 0.4 mm. according to UL94. It is particularly suitable for the moulding of long parts with thin wall sections requiring good thermal resistance:

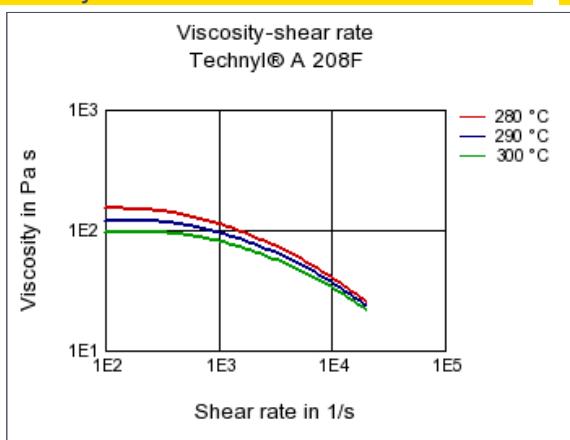
- cable ties and fasteners
- connectors

This product is available in black.

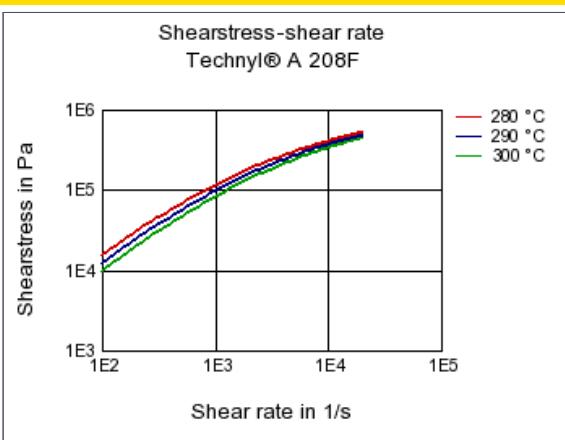
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3200 / 1600	MPa	ISO 527-1/-2
Yield stress	85 / 50	MPa	ISO 527-1/-2
Yield strain	7 / 10	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	4.5 / 8	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	263 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	75 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	210 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	70 / *	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-2 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
Oxygen index	26 / *	%	ISO 4589-1/-2
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	4.1 / 6	-	IEC 60250
Relative permittivity, 1MHz	2.9 / 3.2	-	IEC 60250
Dissipation factor, 100Hz	200 / 800	E-4	IEC 60250
Dissipation factor, 1MHz	300 / 800	E-4	IEC 60250
Volume resistivity	1E13 / 1E12	Ohm*m	IEC 60093
Surface resistivity	* / 1E12	Ohm	IEC 60093
Electric strength	27 / 26	kV/mm	IEC 60243-1
Comparative tracking index	475 / 500	-	IEC 60112
Other properties			
ISO Data			
Water absorption	1.2 / *	%	Sim. to ISO 62
Density	1140 / -	kg/m ³	ISO 1183
Material specific properties			
ISO Data			
Viscosity number	140 / *	cm ³ /g	ISO 307, 1157, 1628
Test specimen production			
ISO Data			
Injection Molding, melt temperature	225	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 10724

Diagrams

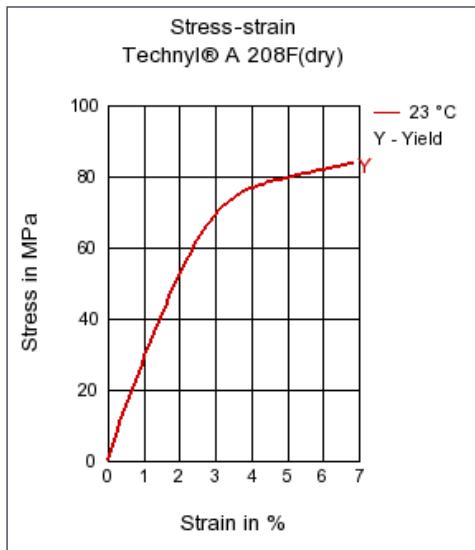
Viscosity-shear rate



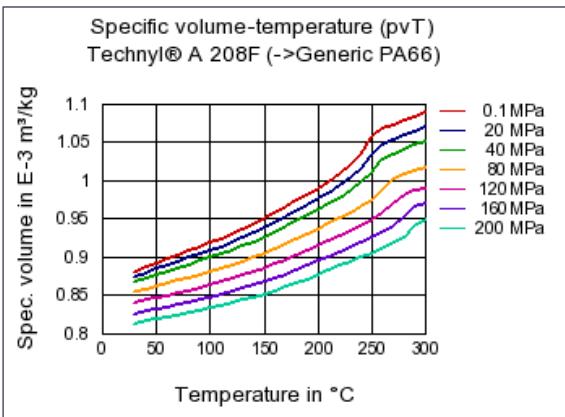
Shearstress-shear rate



Stress-strain



Specific volume-temperature (pvT)



Characteristics

Processing

Injection Molding

Special Characteristics

Heat stabilized or stable to heat

Other text information

Injection Molding

Recommended molding conditions

Barrel temperatures:

- feed zone 270 - 275°C
- compression zone 280 - 285°C
- front zone 285 - 290°C

Mould temperatures: 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)