

Technyl® B 238

PA666

Solvay Engineering Plastics

Product Texts

Copolyamide 6.6/6, unreinforced
 medium viscosity, for injection moulding, elastomer modified, high impact strength, heat stabilised

Mechanical properties	dry / cond	Unit	Test Standard
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ISO Data

Tensile Modulus	2300 / 900	MPa	ISO 527-1/-2
Yield stress	60 / -	MPa	ISO 527-1/-2
Yield strain	5 / -	%	ISO 527-1/-2
Nominal strain at break	50 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	8 / -	kJ/m ²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
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ISO Data

Melting temperature (10°C/min)	242 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	62 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	165 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	70 / *	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	dry / cond	Unit	Test Standard
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ISO Data

Relative permittivity, 100Hz	3.7 / 9	-	IEC 60250
Relative permittivity, 1MHz	3 / 3.2	-	IEC 60250
Dissipation factor, 100Hz	100 / 1000	E-4	IEC 60250
Dissipation factor, 1MHz	200 / -	E-4	IEC 60250
Volume resistivity	>1E13 / 1E11	Ohm*m	IEC 60093
Surface resistivity	* / 1E11	Ohm	IEC 60093
Electric strength	32 / 30	kV/mm	IEC 60243-1
Comparative tracking index	500 / -	-	IEC 60112

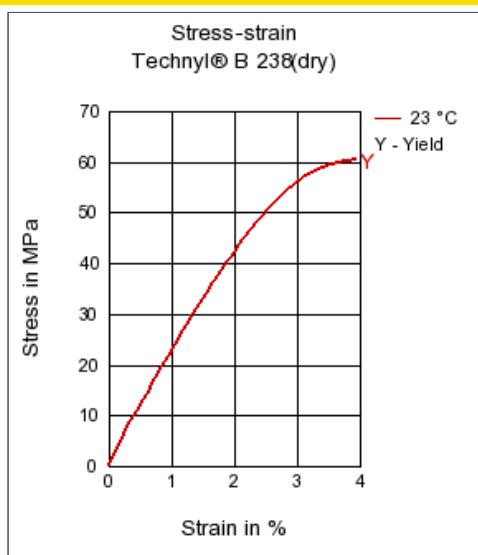
Other properties	dry / cond	Unit	Test Standard
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ISO Data

Water absorption	8 / *	%	Sim. to ISO 62
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1090 / -	kg/m ³	ISO 1183

Diagrams

Stress-strain



Characteristics

Processing

Injection Molding

Other text information

Injection Molding

PROCESSING

Melt temperature: 240°C

Mold temperature: 60°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)