


Technyl® A 50H1

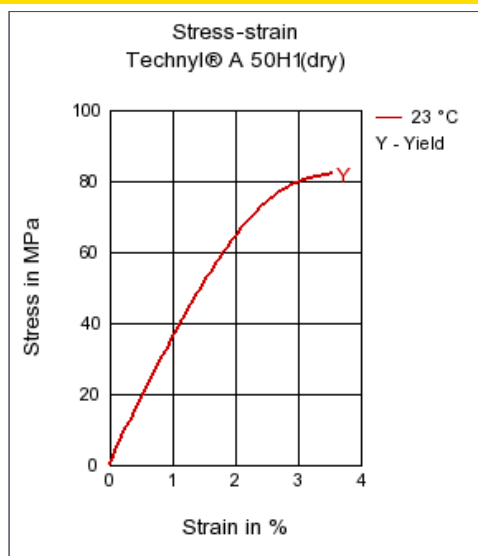
PA66 FR

Solvay Engineering Plastics

Product Texts

Flame retardant polyamide 66, unreinforced, heat stabilised, for injection moulding.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	3800 / 2200	MPa	ISO 527-1/-2
Yield stress	86 / 53	MPa	ISO 527-1/-2
Yield strain	4.22 / 22.3	%	ISO 527-1/-2
Nominal strain at break	21 / >50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	130 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	3.2 / -	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)	85 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	237 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
Electrical properties			
ISO Data			
Comparative tracking index	600 / -	-	IEC 60112
Other properties			
ISO Data			
Humidity absorption	0.88 / *	%	Sim. to ISO 62
Density	1160 / -	kg/m ³	ISO 1183

Diagrams
Stress-strain

Characteristics

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Processing

Injection Molding

Special Characteristics

Flame retardant

Other text information**Injection Molding****PROCESSING**

Melt temperature: 265°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 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)