



Technyl® C 402M		Solvay Engineering Plastics	
PA6			
Product Texts			
Technyl® Unreinforced polyamide 6, containing monomer high viscosity, for injection moulding			
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	1200 / 550	MPa	ISO 527-1/-2
Charpy impact strength (+23°C)	N / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	14.5 / -	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	65 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
Electrical properties			
ISO Data			
Dissipation factor, 1MHz	210 / -	E-4	IEC 60250
Volume resistivity	>1E13 / 1E11	Ohm*m	IEC 60093
Surface resistivity	* / 1E13	Ohm	IEC 60093
Electric strength	- / 18	kV/mm	IEC 60243-1
Other properties			
ISO Data			
Density	1140 / -	kg/m ³	ISO 1183
Diagrams			
Stress-strain			
<div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">Stress-strain Technyl® C 402M(dry)</p> <p style="text-align: right;">— 23 °C Y - Yield</p> </div>			
Characteristics			
Processing			
Injection Molding			

Other text information

Injection Molding

PROCESSING

Melt temperature: 225°C

Mold temperature: 40°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)