Technyl® C 218 V45

PA6-GF45 Solvay Engineering Plastics

Product Texts

Polyamide PA6, reinforced with 45% of glass fibre. heat stabilised, for injection moulding.

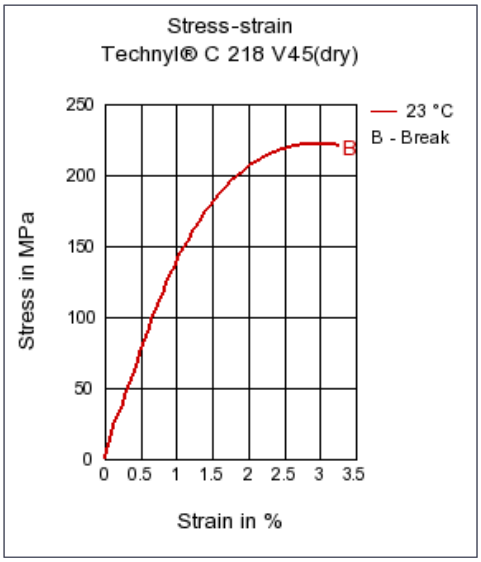
Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	14400 / 9900	MPa	ISO 527-1/-2
Stress at break	220 / -	MPa	ISO 527-1/-2
Strain at break	3 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	90 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	16 / -	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
Melting temperature (10°C/min)	222 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	210 / *	°C	ISO 75-1/-2

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	0.7 / *	%	Sim. to ISO 62
Density	1470 / -	kg/m³	ISO 1183

Diagrams

Stress-strain



Characteristics

Processing
Injection Molding

Special Characteristics
Heat stabilized or stable to heat

Other text information

Injection Molding

PROCESSING
Melt temperature: 225°C
Mold temperature: 80°C

Chemical Media Resistance

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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)