


Technyl® C 548B BLACK

PA6-I

Solvay Engineering Plastics

Product Texts

Polyamide 6, unreinforced, heat stabilised with a very high viscosity for blow moulding

TECHNYL® C 548B is suitable for blow-molding applications.

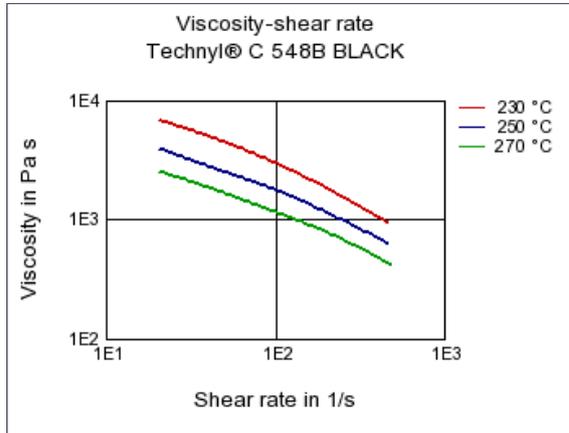
TECHNYL® C 548B is characterised by good processing behaviour, high impact resistance even at low temperature and high barrier properties especially to fluids such as fuels and oils.

TECHNYL® C 548B is commonly used for - fuel filler tube - and air ducts for turbo, in automotive field.

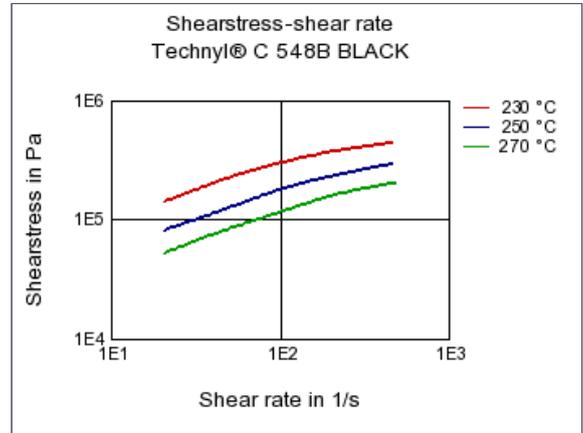
| Mechanical properties | dry / cond | Unit | Test Standard |
|---|-------------------|-------------------|----------------------|
| ISO Data | | | |
| Tensile Modulus | 1850 / 1000 | MPa | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | N / - | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 9 / - | 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) | 55 / * | °C | ISO 75-1/-2 |
| Burning behav. at thickness h | HB / * | class | IEC 60695-11-10 |
| Electrical properties | | | |
| ISO Data | | | |
| Relative permittivity, 1MHz | - / 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 | - / 17 | kV/mm | IEC 60243-1 |
| Other properties | | | |
| ISO Data | | | |
| Density | 1050 / - | kg/m ³ | ISO 1183 |

Diagrams

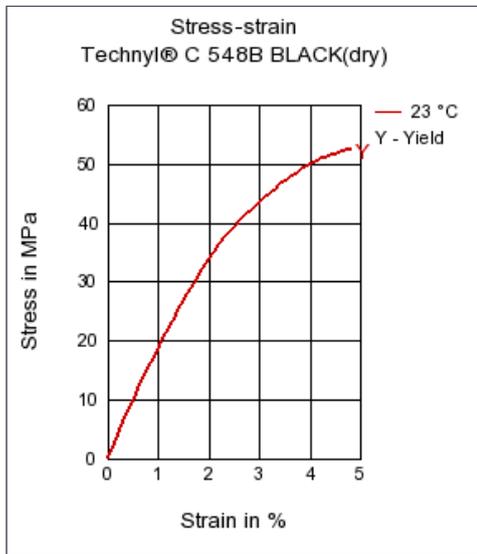
Viscosity-shear rate



Shearstress-shear rate



Stress-strain



Characteristics

Special Characteristics

High impact or impact modified

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)