

PTFEflex

T6100 & T6110 series

Smoothbore PTFE Hose (Virgin/Antistatic)



Key features

- A wide operating temperature range (-70°C to +260°C)
- Inert to virtually all chemicals
- Very resistant to weathering/ageing unaffected by UV light, resistant to oxidation, surface fouling and discoloration.
- Non-flammable
- Lightweight
- Superior flex fatigue life
- Low permeability
- Lowest coefficient of friction of any known solid material
- Unlimited shelf life
- Solvent resistant

Temperature range

-70°C to +260°C

Available sizes	Colour
1/4" - 2"	Translucent PTFE with Stainless Steel Overbraid

Note:

*This hose is available in both Virgin & Antistatic PTFE making it suitable for ATEX applications.

Overview

A standard wall smoothbore virgin/antistatic PTFE hose manufactured in accordance to FDA standards and suitable for the requirements of food, beverage, petrochemical, chemical, medical and pharmaceutical applications. This hose is constructed from a smooth PTFE liner and is reinforced and covered with a single stainless steel braid improving its durability and strength.

Applications

Smoothbore (Standard Wall) PTFE hoses are designed to meet the stringent temperature, pressure and vacuum service requirements found in food, pharmaceutical, medical, beverage and dairy product application. Our PTFE hoses are very versatile and highly recommended for critical applications in many other industries including; Food/dairy handling and production, fluids associated with high temperatures, petrochemical & specialist chemical transferee, bottle filling, de-ionised water transfer, beverage service, handling and production, conveyance of cosmetic solutions, fluids associated with pharmaceutical and bio-medical transfer as well as production.

Options

- Colour coded labelling system
- External cover colour is also available in red, yellow and white
- A range of end connections all manufactured from 316L stainless steel including; Triclover, DINN, RJT, SMS, BSPT
- Can be electropolished to <0.625µm Ra or <0.4µm Ra
- Full 3:1.B material batch traceability

Standards, Accreditations & Registered compliances

Virgin	Antistatic
• BS EN ISO 9001:2008	• BS EN ISO 9001:2008
• FDA 21 CFR 177.1550	• FDA 21 CFR 178.3287
• 3A Sanitary Standards	• 3A Sanitary Standards
• SAE J1737	• SAE J1737
• EN10204	• EN10204
• EN45014	• EN45014
	• ATEX Directive 94/9/EC








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T6100 - Smoothbore PTFE Hose (Virgin & Antistatic)

Size	 (mm)	 (mm)	 (mm)	 (mm)	 (bar)	 (bar)	 (g/m)	Product Code (Virgin)	Product Code (Antistatic)
1/4"	6.00	9.14	0.64	76	241	724	90	T6100-006	T6110-006
3/8"	8.94	12.19	0.64	127	219	655	143	T6100-008	T6110-008
1/2"	12.12	15.80	0.76	140	161	483	217	T6100-012	T6110-012
5/8"	15.60	19.05	0.89	165	138	414	280	T6100-016	T6110-016
3/4"	19.95	22.86	0.89	203	114	345	333	T6100-020	T6110-020
1"	25.83	29.46	1.02	305	69	207	455	T6100-025	T6110-025

*Safety factor of 3:1 ratio burst pressure to working pressure.

PTFE Mechanical Properties	
Density	2200 kg/m ³
Melting Point	600 K
Thermal Expansion	112-125 · 10 ⁻⁶ K ⁻¹
Thermal Diffusivity	0.124 mm ² /s
Young's Modulus	0.5 GPa
Yield Strength	23 MPa
Bulk Resistivity	1016 Ω·m
Coefficient of Friction	0.05-0.10
Dielectric Constant	ε=2.1,tan(δ)<5(-4)
Dielectric Constant (60Hz)	ε=2.1,tan(δ)<2(-4)
Dielectric Strength (1MHz)	60 MV/m

Other PTFE Products

- T6420 - Convoluted Virgin PTFE Hose with Stainless Steel Braid
- T6421 - Convoluted Virgin Vacuum Wired PTFE Hose with Stainless Steel Braid
- T6430 - Convoluted Antistatic PTFE Hose with Stainless Steel Braid
- T6431 - Convoluted Antistatic Vacuum Wired PTFE Hose with Stainless Steel Braid

Related Products

- Brewflex Hose range
- Silicone Hose & Tube
- Hygienic Fittings

Disclaimer

The information contained in this document is to the best of our knowledge, true and accurate, from sources believed to be reliable, we reserve the right to alter specifications without notice. Since conditions under which the products may be used are beyond our control, our recommendations are made without warranty or guarantee and should only be used as a guide. It is however the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of this product, and to determine the suitability of the product for the intended application or use.