



Holscot has added Tefzel* ETFE to its range of melt processable fluoroplastic tubing. Its properties include:

- Excellent Flexibility - Resists kinking when flexed***
- Very Tough - 50 % higher tensile strength than PFA/FEP***
- High Impact strength.***
- Very good chemical resistance***
- High dielectric constant***
- Resists operating temperatures up to 155 °C***

These properties make it ideal for use in arduous conditions where flexibility and chemical resistance are necessitated such as chemical hose lining or covering of underwater cables.

Holscot is capable of extruding from 4mm to 400 mm diameter. Continuous lengths of 1 km can be supplied if required. Wall thickness to customer specification.

For more information contact:

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GENERAL PROPERTIES OF TEFLON AND TEFZEL

PROPERTY	TEST METHOD	UNITS	TEFLON PTFE	TEFLON FEP	TEFLON PFA	TEFZEL
Specific Gravity	ASTM D792		2.16	2.15	2.15	1.71
Tensile Strength	ASTM D638	MPa	24.5	31	31	44.8
Ultimate Elongation	ASTM D638	%	350	305	300	275
Flexural modulus	ASTM D790	MPa	490	586	690	1373
Flex Life	MIT (0.2mm, 180deg flex)		750,000	80,000	200,000	30,000
Impact Strength	ASTM D256	+23° C	-----	----- NO	BREAK--	-----
		-54° C J/m	107	155	155	> 1100
Hardness	ASTM D2240	Shore D	55	57	60	75
Coefficient of dynamic friction			0.1	0.2	0.2	0.4
Melting Point		°C	327	260	305	270
Service Temperature (20,000 h) with 50% retention of ultimate elongation		°C	260	205	260	155
Inflammability	UL-94		94 V-0	94 V-0	94 V-0	94 V-0
Limiting Oxygen Index	ASTM 2863	%	>95	>95	>95	>30
Heat of combustion	ASTM D240	MJ/kg	5	5	-5	13.8
Dielectric constant at 10 ³ - 10 ⁶ Hz	ASTM D150		2.1	2.1	2.1	2.6
Dissipation factor at 10 ⁸ Hz	ASTM D150		0,0002	0,0007	0,0002	0,005
Arc Resistance	ASTM D495 Stainless Steel Electrodes	s	>300	>300	>180	72
Volume Resistivity	ASTM D257	ohms/cm	>10 ¹⁸	>10 ¹⁸	>10 ¹⁸	>10 ¹⁶
Surface Resistivity	ASTM D257	ohms	>10 ¹⁸	>10 ¹⁶	>10 ¹⁷	>10 ¹⁴
Weather Resistance	" Weather O-Meter" (2000 h)		-----	----- NO	BREAK--	-----
Solvent Resistance	ASTM D543		Excellent	Excellent	Excellent	Very Good
Chemical Resistance	ASTM D543		Excellent	Excellent	Excellent	Very Good

These properties are representative of the grades recommended for harsh applications