



Ether-PUR FLEX™ 84

Product Features

The Ether-PUR FLEX™ 84 product line is made from an ether based polyurethane resin. This material is much more abrasion and impact resistant than PVC while maintaining flexibility and clarity. Urethane also possesses a high level of chemical compatibility. Since this is a pure polyurethane resin, it contains no plasticizers and has a very low level of extractables making it a great product for high purity applications. This formulation CAN be used with aqueous solutions.

Ether-PUR FLEX™ 84 Tubing

- Clear and Flexible
- Tough; resists tearing and abrasion
- Superior resistance to hydrolytic degradation compared to Ester-PUR FLEX 85
- Flexible at low temperatures
- High impact resistance
- Pure polyurethane; contains no plasticizers and low levels of extractables
- Resistant to atmospheric ozone
- Complies with FDA CFR21 for food packaging
- Meets REACH, ROHS and Proposition 65 requirements
- Made from NSF-61 certified compound

Typical Applications

- High-purity applications
- Instrumentation
- Distilled, deionized, demineralized or reverse osmosis-treated water
- Handling petroleum- based products
- Recommended for use with aqueous solutions

Specifications

All Ether-PUR FLEX™ 84 tubing products offer the following:

- Acceptable for food contact by the following standard: *Every substance selected to formulate the items below is either "generally recognized as safe" (GRAS), prior-sanctioned, subject to an effective Food Contact Notification (FCN), subject to a Threshold of Regulation (TOR) exemption, or identified on one or more following sections of Title 21 of the Code of Federal Regulations published by the U.S. Food and Drug Administration (FDA): 181.5, 181.27, 178.2010, 172.860, 174.5*
- Meets REACH, ROHS and Proposition 65 requirements

Ingredients & CRF Paragraph No.

Adhesives	175.300
Polyurethane resins	177.1680
Rubber articles intended for repeated use.	177.2600

Chemical Resistance

Ratings for ideal conditions 73°F / 25°C

Strong Mineral Acids	Fair
Organic Acids	Not Recommended
Weak Acids	Good
Bases - Weak	Good
Bases - Strong	Good
Solvents	Fair

Ether-PUR FLEX™ 84 Size & Physical Properties

Size Chart

Catalog Number	ID Size In.	OD Size In.	Wall	Operating Pressure PSIG 73°F	Case Qty. Ft.
8684-4170	1/16	1/8	1/32	90	100
8684-4240	1/8	3/16	1/32	58	100
8684-4245	1/8	1/4	1/16	92	100
8684-4290	3/16	1/4	1/32	48	100
8684-4295	3/16	5/16	1/16	72	100
8684-4335	1/4	3/8	1/16	76	100
8684-4340	1/4	7/16	3/32	80	100
8684-4345	1/4	1/2	1/8	92	100
8684-4390	5/16	7/16	1/16	56	100
8684-4400	5/16	9/16	1/8	84	100
8684-4430	3/8	1/2	1/16	48	100
8684-4440	3/8	5/8	1/8	76	100
8684-4465	7/16	5/8	3/32	56	100
8684-4505	1/2	5/8	1/16	34	100
8684-4515	1/2	3/4	1/8	64	100
8684-4565	5/8	13/16	3/32	44	100
8684-4570	5/8	7/8	1/8	50	100
8684-2605	3/4	1	1/8	48	50
8684-2640	7/8	1-1/8	1/8	38	50
8684-2675	1	1-1/4	1/8	34	50

Physical Properties

Properties	ASTM Method	Value Rating
Hardness; Shore A (+/- 5)	D2240	84
Vacuum		Not Recommended
Operating temperature range		-70°F - 175° F -56°C - 80°C
Maximum Working Pressure		73°F / 76PSI 125°F / 38PSI
Testing Size		1/4"ID x 1/16"W
Color		Transparent Natural
Odor		None
Taste		N/A
Specific Gravity; g/cm ³	D792	1.12
Tensile Strength; psi	D638	5500
Ultimate Elongation; %	D638	500
Flame Resistance	D568	Burns

* The above is accurate to the best of the Company's knowledge, however, these are typical values and should not be used as a certification. All materials should be tested for suitability in their intended use.