

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

Typical Applications

- High-purity applications
- Instrumententation
- 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:

 Manufactured from ingredients whose usage is sanctioned by the U.S. Food & Drug Administration under Title 21 of the Code of Federal Regulations for food packaging applications, per the following:

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		

Finger Lakes Extrusion

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Ether-PUR FLEXTM 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

Thysical 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/cm³	D792	1.12			
Tensile Strength; psi	D638	5500			
Ultimate Elongation; %	D638	500			
Flame Resistance	D568	Burns			



Curbell Plastics is a proud supplier of Finger Lakes Extrusion materials

* 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.



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