

Molded Tube & Hose Assemblies

Molded Tube & Hose Assemblies reduce the need for separate components.

BioConnexx, Inc. provides the unique solution of a molded end connection on a wide variety of tube and hose. The molded end reduces the need for separate components. The end is molded directly onto the hose or tube and shares the same ID as the hose or tube it is molded to which reduces entrapment areas and contamination.



Molded Tube & Hose Assembly Features:

- Sterilize by autoclaving
- Assembly can achieve the tube/hoses maximum working capability
- Wide variety of tubing to choose from
- Disposable or reusable
- Molded connections meet FDA requirements

Use Molded Assemblies with:

- Pharmaceutical and food filling applications
- Filtration applications
- Food product transfer. Dry or wet.
- Vacuum applications

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Tube & Hose That Can Be Molded Onto:

Wall	ID	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1.0"	1.25"	1.5"	2.0"
1/16"		✓				✓	✓			✓			
1/8"			✓	✓	✓	✓	✓	✓	✓	✓			
3/32"			✓	✓	✓	✓	✓	✓	✓	✓			
1/4"			✓	✓	✓	✓	✓		✓	✓	✓	✓	✓

The table above represents the size of the tubing that can accommodate molded sanitary flanges, however other styles of connections are available. Samples of styles include, Male Cam Lock, Female and Male I-Line, Q-Line, bevel seat and MNPT. Please inquire to see if the fitting is available for the size of tubing you intend to use.

Below is a sampling of manufacturers whose PVC, TPR and other non-silicone based tube and hose can be utilized to meet your requirements. Other manufacturers hose and tube may be used to produce assemblies provided sizing and material are compatible with molded ended materials.



Molded End Resin Properties

End Materials Utilized For Molding	Tensile Strength (MPa)	Flexural Modulus (MPa)	Heat Deflection	Water Absorption	Maximum Recommended Working Temp °F
PVC	46.9	430	147°F @ 264 psi	.4% in 24 hours	125°F
Hytrell	26.9	570	124°F @ 264 psi	.3% in 24 hours	125°F

Physical properties provided as general guidelines only. It is the end-users responsibility to ensure that the above mentioned products are compatible with the intended application and that the products are in compliance with all applicable regulatory requirements for use. User assumes all risk of usage.

For additional information please contact:



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