

NEWSLETTER

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EVOH Tubes

ABOUT EVOH

VOH (Ethylene-vinyl alcohol copolymer) is a flexible, clear, and glossy thermoplastic copolymer with good flex-crack resistance. It is very high resistance to hydrocarbons, oils and organic solvents.

EVOH provides very strong barrier properties. It is ideally suited to pack cosmetics with cream & gel based content, food items and specific industrial chemicals which have medium to high viscosity.

It is one among the most recommended barrier for plastic tubes.

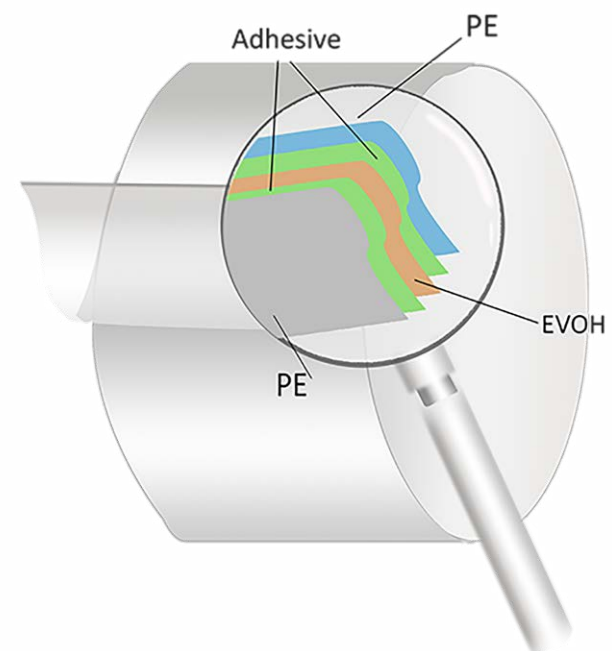


However, EVOH loses its gas barrier properties when exposed to moisture.

To optimize both cost and performance, it is frequently used in multilayer, co-extruded films like HDPE, PP, and PET, which have superior moisture barrier properties, called PBL Tubes.

PBL tubes or Laminated Tubes are made completely of plastic with the barrier layer being made of EVOH plastic granules.

PBL Tubes made of all plastic layers can be completely transparent and make the final product packed inside the tube visible to the customers.

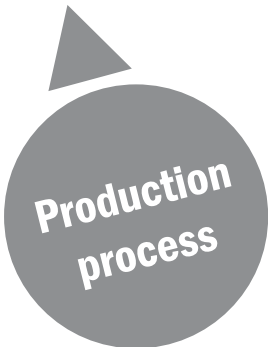


- PE—Out Layer
- Adhesive—Bonding Layer
- EVOH—Insulating Layer
- Adhesive—Bonding Layer
- PE —Inner Layer



FACTORY

VIDEO



The video above shows a process of extrusion. A mixture of resin and color concentrate is placed into an extruder hopper.

The extruder is temperature controlled as the resin is fed through to ensure proper melt of the resin. The sleeve is water-cooled and ready for cutting. The sleeve is fed through a set of dies and is sliced to a given length by a rotating knife.



GLOBAL COSMETIC TUBES

A recent market study released by Technavio, “Global Cosmetic Tubes and Jars Market 2017-2021,” predicts that the global market for these components will grow at a CAGR of close to 6% during the forecast period.

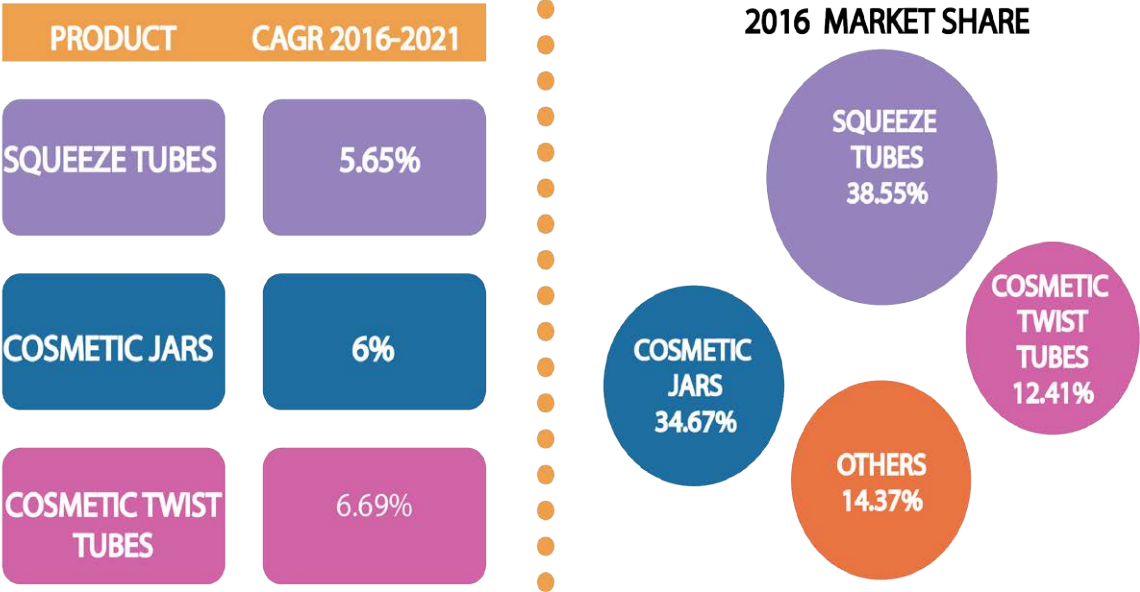


Available in a variety of portable shapes and sizes, tubes hygienically enable consumers to **squeeze nearly 100% of the product out of the package**, with easy, one-handed dispensing.

With increasing demand for environment sustainability and protection, their recyclability becomes more popular for product developers.



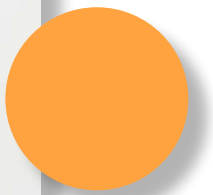
GLOBAL COSMETIC TUBES AND JARS MARKET BY PROUDUCT



Tubes give brands an abundance of surface real estate to display product information and decoration for on-shelf differentiation. A **large, 360-degree printable area** gives ample room for brands to clearly display their logo, their product, its benefits and all of the increasing regulatory information required of a cosmetic product . Add to that custom colors, metallic effects, graduated printing, life-like **flexo-printing** and a multitude of header and cap options and you have one versatile, squeezable, advertising board for your products.

Along with the proliferation of natural and sophisticated formulations comes an increasing need for packaging protection.





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Multi-layered laminate tubes with barrier layers provide sensitive formulas with much needed protection, and are an ever-popular choice for brand owners. Barrier layers in a multi-layered tube structure include ones made with ethylene vinyl alcohol (EVOH) plastic resin or aluminum.

EVOH is an barrier layer, a trend toward the use of plastic-based laminate material. Using EVOH as a barrier as compared to aluminum in traditional laminate tubes because of the benefit to bounce back to its original shape.



It is a good option for brands that don't wish to use a carton.



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"Application Example"

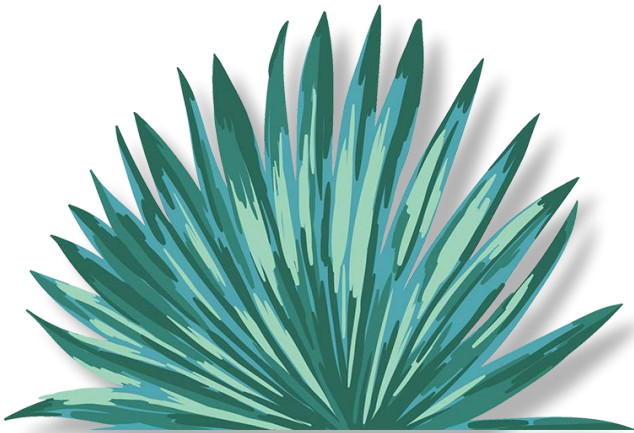


Tube Diameter.Fill Capacity

diameter mm/D length mm/L capacity ml/C	11	13	16	19	22	25	30	35	38	40	45	50	55	60
1	51	40												
3		51	43											
5		65	55											
10				66										
15				85	72									
20				100	85	74								
25				110	100	84								
30					110	94	78							
35						104	85	75						
40						115	92	81						
50						135	106	91						
60							122	102	90					
70							136	112	100	98				
80							150	124	110	106				
90								135	120	114	86			
100								148	130	122	95			
110								162	145	128	102			
120									155	137	110			
130									164	145	115	110		
140									173	154	126	118		
150									181	162	134	120	100	
160										170	142	130	105	
170										178	150	137	110	
180										186	158	143	115	
190											164	149	120	
200											172	156	124	108
210											180	164	127	108
220											190	170	130	120
230												175	137	125
240												180	143	130
250												185	149	135
300													173	150
350													195	162
400													218	175
450														190
500														225

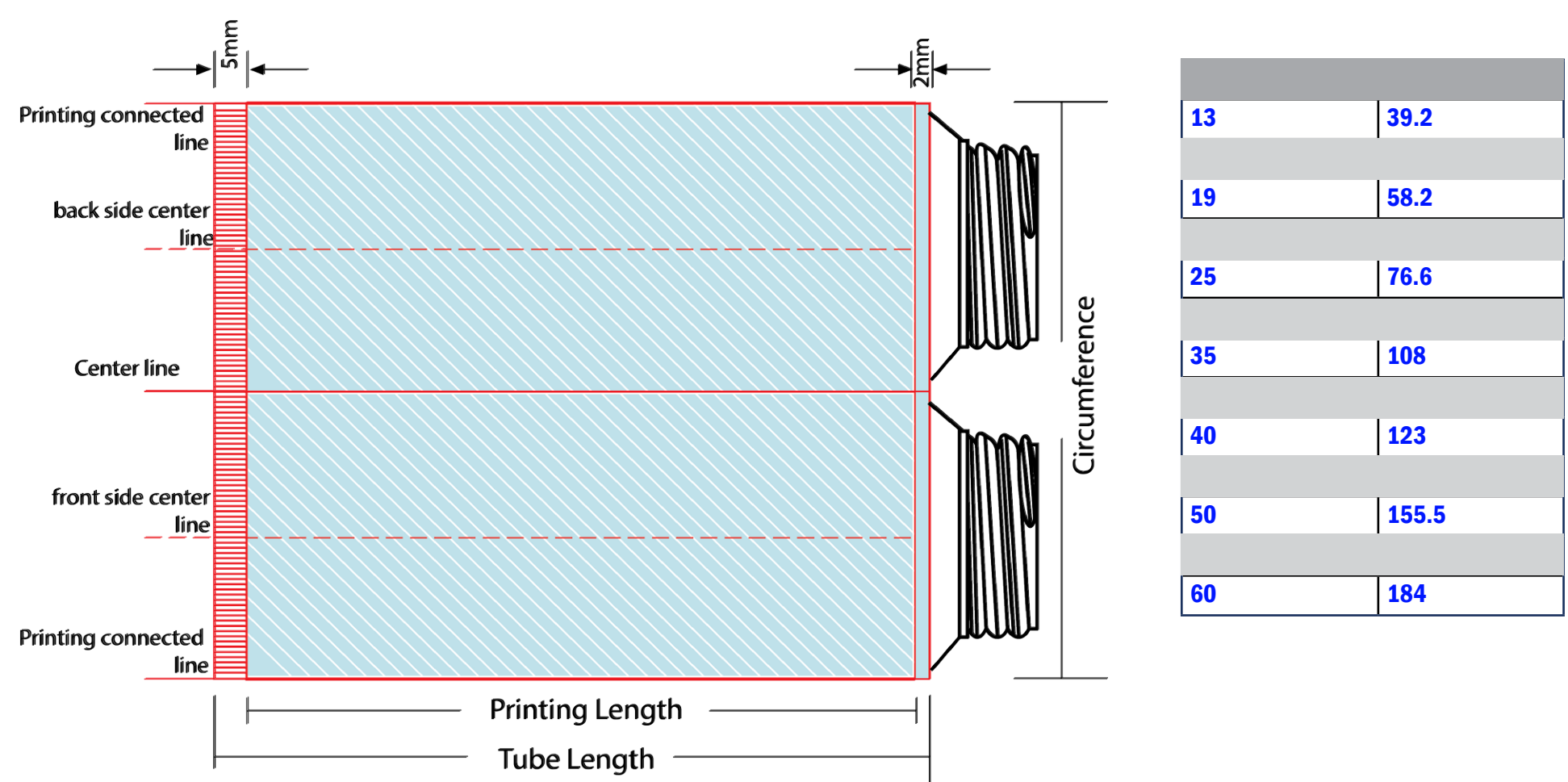
Length of tube can be customized.

Specifications are for reference only and customized sizes are available.



Oval/Super Oval Tube Diameter. Capacity

diameter mm/D length mm/L capacity ml/C	25	30	35	40	45	50
30	94	80				
35		90	80			
40		100	88			
50			98			
60			105	100		
70			125	110		
80			135	125	108	
100			143	130	112	
105				135	120	
110				145	125	
120				155	135	
125					150	125
140					162	130





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