



ID dimensions are taken directly from the relevant fittings standards. FlowSmart's precision manufactured gaskets are designed and engineered to achieve a bacteria free, smooth bore transition when the fitting union is fully assembled and under clamping compression.

<b>FlowSmart PolyFlex Bonded Gasket</b>				
<b>Tube Size</b>	<b>Dimensions in Inches</b>		<b>Gasket Part Numbers by Material</b>	
	$\phi A$ OD	$\phi B$ Bore ID	<b>EPDM</b>	<b>VITON®</b>
1/2"	0.852	0.380	B40MPE-050	B40MPV-050
3/4"	0.852	0.620	B40MPE-075	B40MPV-075
1"	1.984	1.377	B40MPE-100	B40MPV-100
1-1/2"	1.984	0.877	B40MPE-150	B40MPV-150
2"	1.984	1.377	B40MPE-200	B40MPV-200
2-1/2"	2.515	1.877	B40MPE-250	B40MPV-250
3"	3.050	2.378	B40MPE-300	B40MPV-300
4"	3.579	2.878	B40MPE-400	B40MPV-400

<b>Property</b>	<b>Test Method</b>	<b>Results</b>
Specific Gravity	ASTM D4894-89a	2.165
Tensile Strength	ASTM D4894 DIN53455	4000 psi 6400 psi
Elongation @ Break	ASTM ASTM D4894 DIN53455	350% 430%
Compression Modulus	ASTM D695	84,000 psi
Compressive Strength @ 0.2% Offset	ASTM D695	1,590 psi
Compressive Strength @ 5% Strain	ASTM D695	2,620 psi
Hardness	ASTM D2240	69 Shore D
Bulk Density	ASTM D4894-89a	420
Deformation Under Load 2175 psi	ASTM D621 24 hours 100 hours Permanent	8 9 4

\* The preceding data gives the typical properties of the selected PolyEnvelope PTFE bonded to EPDM material. These are typical properties and should not be used for specification purposes. This information is based on our experience to date and we believe it to be reliable. It is intended to be used only as a guide at your discretion and risk. Flow Smart cannot guarantee favorable results and assumes no liability in connection with the use of this product. None of this information is to be taken as a license to operate under, or a recommendation to infringe any patents.

Property	Test Method	PTFE Results	Affect on sanitary gasket:
<b>Void Content</b>	<b>Test Method</b>	0.75	Less void limit material pass through, entrapment and extends gasket life
<b>Reduction Deformation Under Load</b>	ASTM D621  100 hours @74F	11%	Reduction of deformation aids in the memory of a gasket material. The elastomer backing further improves memory.

**Note:** The contact surface of FlowSmart's PolyEnvelope is attacked by some alkali metals (molten or in solution) and by some rare fluorinated compounds at high temperatures and pressures. Some organic and halogenated solvents are absorbed causing small dimensional changes but the effects are physical and also reversible.

. It is the end user's responsibility to fully evaluate and test the fitness of the product for their specific application.