



Dairy Pipe Lines Ltd
 Tipton Road
 Dudley
 DY1 4SQ
 Tel: 01799 58 2442
 Email: hello@dpluk.co.uk



THE DPL GUIDE TO GASKET AND SEAL TYPES AND THEIR APPLICATIONS

Material	EPDM	NITRILE	SILICONE	VITON	PTFE/ PTFE Envelope
Type	Elastomer	Elastomer	Elastomer	Elastomer	Polymer
Where /Why	<p>The most commonly used seal material in the food, Dairy and Beverage industries due to its suitability for use in CIP systems.</p> <p>Excellent resistance to most food types, dilute acids and bases and hydraulic fluids. Excellent resistance to compression set.</p> <p>Unsuitable for use with mineral oils and solvents.</p>	<p>Commonly used in the food industry in applications where EPDM is unsuitable.</p> <p>Good resistance to oils, fats and greases, water, dilute acids and bases, and most food types.</p> <p>Unsuitable for use in high temperature applications.</p>	<p>More frequently used in Pharmaceutical, Medical and Dairy Industries.</p> <p>Very good resistance to high and low temperatures, most food types, extreme weather conditions and acids and bases at average temperatures and concentrations.</p> <p>Unsuitable for use with aggressive oils, hot water or steam due to weak mechanical properties.</p>	<p>Viton is generally used where aggressive conditions are encountered.</p> <p>Excellent resistance to a wide range of synthetic fluids, chemicals and acids.</p> <p>Very good resistance to high temperatures and has good mechanical properties.</p>	<p>Chemically resistant to a wide range of aggressive applications such as acids and ozone, mineral and vegetable oils.</p> <p>PTFE is not an elastomeric material and therefore works better as a gasket when paired with an elastomer inner i.e. Clamp PTFE Envelope gaskets.</p> <p>PTFE has excellent resistance to high temperature but may become soft / mechanically weak at elevated temperatures.</p>
Temperature Range	-40 to +130 Deg C	-30 to +90 Deg C	-50 to +200 Deg C	-20 to +200 Deg C	Solid PTFE: -20 to +250 Deg C PTFE Envelope (Clamp only): -20 to +200 Deg C

For further information contact the Sales Team on 01779 611 062 or email hello@dpluk.co.uk