

Product/Attribute	GYLON® BIO-PRO PLUS™ 	GYLON BIO-PRO® 	Buna 	FKM 	EPDM 	Silicone 	PTFE 	Tuf-Flex® 	Tuf-Steel® 	PTFE/EPDM Envelope 	PTFE/FKM Envelope 
Temperature Range	-260 to +260°C	-260 to +260°C	-40 to +135°C	-30 to +205°C	-28 to +150°C	-40 to +230°C	-73 to +260°C	-20 to +260°C	-200 to +288°C	-30 to +150°C	-30 to +170°C
Pressure Range	up to 55 bar	up to 55 bar	Clamp****	Clamp****	Clamp****	Clamp****	Clamp****	Clamp****	Clamp****	Clamp****	Clamp****
Vacuum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Chemical Resistance	Universal*	High	Low to Medium	Medium to High	Medium	Medium	Universal*	Universal*	High	Universal*	Universal*
Material	100% PTFE	PTFE + Pigment + Filler	100% Buna	100% FKM	100% EPDM	100% Silicone	100% PTFE	PTFE + EPDM	PTFE + 316SS	PTFE/EPDM	PTFE/FKM
Traceability	Yes	On Demand	On Demand	On Demand	On Demand	On Demand	On Demand	On Demand	On Demand	On Demand	On Demand
CIP Processes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIP Processes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dimensional Stability	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Easy removal/non-stick	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Shelf Life	Unlimited	Unlimited	10 Years	10 Years	10 Years	10 Years	10 Years	10 Years	10 Years	10 Years	10 Years
Service Life	Unlimited**	Unlimited**	Application Dependent***	Application Dependent***	Application Dependent***	Application Dependent***	Application Dependent***	Application Dependent***	Application Dependent***	Application Dependent***	Application Dependent***
TA-LUFT + Blowout	Yes	No	No	No	No	No	No	No	No	No	No
FDA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EC1935	Yes	Yes	No	No	No	No	No	No	No	No	No
USP Class VI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Phthalate Free	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Silicone Free	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
BAM Tested	Yes	Yes	No	No	No	No	No	No	No	No	No
ADI Free	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hydrocheck	No	Yes	No	No	No	No	No	No	No	No	No
3A 60-63	TBD	No	No	Yes	Yes	Yes	Yes	No	No	No	No
3A 18-30	No	No	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1	Class 1
3A 20-27	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hygienic Design per EHEDG	Yes	No	No	No	No	No	No	No	No	No	No
NSF 61	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
62.Bfr	Yes	No	No	No	No	No	No	No	No	No	No
Application	Pharma, Food, SIP, CIP, Hygienic Design, Ultra-Low Adhesion, HighPurity Demands, Sustainable Cleaning	Pharma, Food, Rough SIP & CIP, Well Known and Proven Gasket	Pharma, SIP, CIP, Good Chemical Resistance	Pharma, Food, High Chemical Resistance & Temperature Range, SIP, CIP	Pharma, Food, High Chemical Resistance & Temperature Range, SIP, CIP	Pharma, Food, High Chemical Resistance & Temperature Range, SIP, CIP	Pharma, Food, High Chemical Resistance & Temperature Range, SIP, CIP	Pharma, Food, Rough SIP & CIP, Well Known & Proven Gasketing Material	Pharma, Food, Rough SIP & CIP, Well Known & Proven Gasketing Material	Pharma, Food, High Chemical Resistance & Temperature Range, SIP, CIP	Pharma, Food, High Chemical Resistance & Temperature Range, SIP, CIP

*Except certain alkali metals and fluorinating agents

**Depending on application parameters

***Service life is dependent upon specific application and installment by the customer

**** Clamp