

# J-FLEX MATERIAL DATA SHEET

## NBR NITRILE / NYLON DIAPHRAGM SHEET RUBBER

J-FLEX QUALITY NO: M47 (CODE: TX1B1N2040) x 0.4mm thick (+/-0.04)		
ELASTOMER CHARACTERISTICS	VALUE	TEST METHOD
Elastomer	NBR Nitrile Rubber 613 Grade	
Gravity	1.15 g/cm <sup>3</sup> (+/-0.05)	UNI 4818-4
Hardness	55°(+/-5) Shore A	UNI EN ISO 868
Colour	Black	
FABRIC CHARACTERISTICS		
Fabric	100% Nylon 210 Grade	
Weight	110(+/-5) g/m <sup>2</sup>	UNI 5114
Thickness	0.20(+/-0.01)mm	UNI EN ISO 5084
No. of Threads	26 x 20 / cm	UNI EN 1049-2
COATED FABRIC CHARACTERISTICS		
Thickness	0.40mm (+/-0.04)	UNI EN ISO 2286-3
Weight	460 g/m <sup>2</sup> (+/-10%)	UNI EN ISO 2286-2
Tensile Strength	Warp: ≥ 1100 N/5cm Weft: ≥ 1100 N/5cm	UNI EN ISO 1421 UNI EN ISO 1421
Elongation at Break	Warp: ≥ 20% Weft: ≥ 20%	UNI EN ISO 1421 UNI EN ISO 1421
Adhesion	≥ 10 N/cm	UNI ISO 36
Hydrostatic Burst Test Strength	500 psi / 34 bar	Based on Mullen Burst Test
Temperature Range	-30°C to +90°C	

Suitable for LPG & CNG, Compressed Air, Methane, Pentane, Propane, Aliphatic Hydrocarbons. Mineral & Silicone Oils.

Some internal testing has been done on our materials and whilst no formal approval has been sought, our materials fully meet the requirements of BS:EN:549: 1995 "Rubber materials for seals and diaphragms for gas appliances and gas equipment".

Issue 2

January 2016



**J-FLEX**

Engineering Rubber Components & Specialised Sheeting Products

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