

**Item Name:** Diaphragm Rubber Insertion Sheet (NBR-Based)

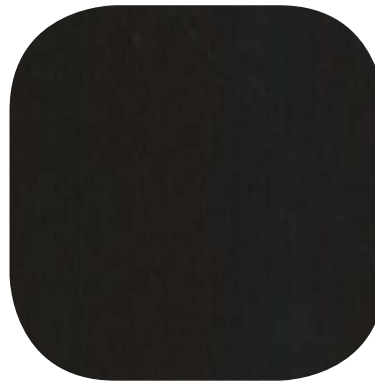
**Item Description:** Diaphragm Sheets for Oil/LPG/Solvent Applications

**Diaphragm Sheets** are special sheets manufactured with high quality nitrile rubber compounds with 1 or 2 piles of Nylon Fabric Insertion for use as diaphragm for oil, LPG and Solvent Resistant Applications. Nylon fabric are provided as reinforcement and the nitrile compounds ensure longer life in oil applications.

Diaphragm Sheets have a **working temperature range of -30°C to +120°C**. They have **medium to high tensile strength, compression set, flexibility and impermeability to gases** and is **resistant to most inorganic and organic chemical products other than antioxidants agents and chlorine**. We do not recommend use with polar liquids like ketones, ethers and amines.

**Applications:**

- Gaskets
- Diaphragms for Oil, LPG & Solvent Application
- Control Valves
- Regulators
- Pumps
- Differential Pressure Creation



Smooth Finish



Fabric Finish

Product Code	Specific Gravity (gm/cm <sup>3</sup> )	Hardness (+/- 5° Shore A)	Tensile Strength (min. Kg/cm <sup>2</sup> )	Elongation at Break (min. %)	Volume Swell at 40°C/22hrs (% max)	Compression Set at 70°C for 22hrs (%)	Temp. Range (°C)
DI 13070S	1.30	70	80	250	25	35	-30 to +110
DI 12060S	1.20	60	100	300	25	25	-30 to +110
DI CD (Custom)	1.20 to 1.50	50 to 75	50 to 120	200 to 400	25	25 to 35	-30 to +110

S - Standard Grade | CD - Custom Design

**Insertion Fabric** RFL Dipped Nylon 6, 150 GSM.

**Breaking Strength** Warp - 150 Kgs. / 5 cm, Weft - 135 Kgs. / 5 cm.

<b>Standard Sizes</b>	1) 1.2 Mtr. Wide x 10.0 Mtr. Long. 2) 1.0 Mtr. Wide x 2.0 Mtr. Long.
<b>Custom Size</b>	Max. width upto 1220mm, length upto 20M and thickness from 1mm to 12mm available on request.
<b>Standard Colour</b>	Black (Other colours available on request subject to availability.)
<b>Surface Finish</b>	1) SS - Both Side Smooth (Standard) 2) SF - One Side Smooth / Other Side Fabric Finish 3) FF - both Side Fabric Finish
<b>Manufacturing Tolerance</b>	±10% on thickness, ±5% on length, ±2% on width.
<b>Note</b>	Sheets can be supplied with fabric insertion in cotton, polyester, glass fibre etc. instead of nylon.
<b>Minimum Ordering Information Required</b>	<ul style="list-style-type: none"> <li>• Dimension (Length x Width x Thickness)</li> <li>• Application/End Use</li> <li>• Working Temperature in °C</li> <li>• Tensile Strength &amp; Elongation at Break</li> <li>• Hardness</li> <li>• Specific Gravity</li> <li>• Volume Swell</li> <li>• Colour</li> <li>• Surface Finish</li> <li>• Total Quantity Required</li> </ul>

The data on this page represent typical values. Since application variables are a major factor in product performance, this information should serve only as a guideline. We assume no obligation or liability for use of this information. Unless we agree otherwise in writing, we make no warranties, express or implied, and disclaim all implied warranties. We shall not be liable for any special, incidental or consequential damages. We reserve the right to change product design and properties without notice.