

J-FLEX MATERIAL DATA SHEET

PVC / NITRILE / NYLON INSERTION SHEET C/W FABRIC IMPRESSION ON BOTH SIDES QUALITY : PVNN24

- 1. GENERAL** - This specification covers requirement that shall be met by the casing of Floating Roof Tank Seals
- 2. PHYSICAL PROPERTIES**
 - 2.1 The casing material shall be oil, water and weather resistant.
 - 2.2 The material of the casing shall be Nylon Fabric with PVC Nitrile Butadiene compound coating on either side.
 - 2.3 **Physical Properties of the Compound:** (N.B. Tested on 2mm Thickness Rubber Sheet as per IS3400)

PROPERTY	VALUE
Hardness	75° (IRHD)
Specific Gravity	1.21 (g/cc)
Tensile Strength	13.5 (Mpa)
Elongation @ break	250 (%)
Compression set - 24 hours @ 70°C	30.0 (%)
Angle tear strength	33.0 (N/mm)
Surface Resistivity .BS 903 Pt C1	2.7x10 ⁷ (Ohms)
Low Temperature Resistance: 5 hours at -20°C, 180° bend	No cracks
<u>Immersion fuel B* 7 days at 40°C</u> Hardness change	-13 (IRHD)
Tensile	8.3 (Mpa)
Elongation	205 (%)
Volume	14.6 (%)
Drying 4 days at 40°C	-11.5 (%)
Ozone resistance 72 hours At 40°C / 50pphm	No cracks

P.T.O.



J-FLEX RUBBER PRODUCTS

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2.4 Physical Properties of the Nylon Fabric:

PROPERTY	VALUE
Thickness of the Nylon Fabric	0.5mm (+/-0.1)
Breaking Strength / 5cm Along Warp (min) Along Weft (min)	150Kg 135Kg
Nylon Fabric Weight	135grms / sq. m

3. TEST TO BE PERFORMED ON THE CASING OF THE MATERIAL (END PRODUCT)

3.1 Volumetric Swelling Test:

Maximum Volumetric Variation after immersion in solvent at ambient temperature shall be limited to the following:-

POLYMER:		PVC NITIRLE	
SOLVENT		48 Hours	10 Days
A	In a mixture containing 70% Aromatic	38%	48%
B	In a mixture containing 30% Aromatic	20%	22%
C	In Isooctane Fuel ASTM A	5%	5%
D	In Water	8%	10%

CLIENT REFERENCES:

- MB Engineering Services Ltd – Scotland
- Land & Marine (McTay Tank Seals)
- ISC Seals
- N P Manufacturing
- Bridge & Roof
- Indian Tube Mill
- Artson Engineering
- Nicco Corp

+ CONTRACTORS

- Hindustan Petroleum Corporation Ltd
- Bharat Petroleum Corporation Ltd
- Indian Oil Corporation Ltd
- Reliance Petroleum
- Cochin Refineries
- Chennai Refinery

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