



# Product information

## **PVC NITRILE / NYLON SPECIFICATION**

### **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 <sup>7</sup> (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. ....

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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
- 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