

FLEXITEC PN1/FR is a Class '0' fire-rated, closed cell, elastomeric PVC nitrile foam. This material is black in colour and available in rolls or sheets at the standard thickness of 3mm, 6mm, 9mm, 13mm, 16mm, 19mm, 25mm and 32mm

PHYSICAL PROPERTIES

Density			60 Kg/m ³
Thermal Conductivity	BS874 Part 2 1986	@ 0°C @ +20°C @ +40°C	0.034 Wm ⁻¹ K ⁻¹ 0.036 Wm ⁻¹ K ⁻¹ 0.038 Wm ⁻¹ K ⁻¹
Water Vapour Permeability	Moisture Resistance Factor BS EN ISO 9346:1996 BS4370 Part 2 1973		7000 2.79 x 10 ⁻¹⁴ Kg/(m s Pa) 0.035 Wm ⁻¹ K ⁻¹
Water Absorption	By Volume after 28 days		0.9% Ave. 15% Max.
Tensile Strength	DIN 53571	(Lengthwise) (Crosswise)	0.42 Nmm ⁻² 0.30 Nmm ⁻²
Elongation @ Break	DIN 53751		145%
Compression Stress	DIN 53577	(30% Deformation) 40 KPa (50% Deformation) 85 KPa (70% Deformation) 190 KPa	
Temperature Range			-50°C to +105°C
Compression to Set	DIN 53572	(22h/50%/24h)	20%
Chemical Resistance			Good
Fire Performance	BS476 Part 7 BS476 Part 6	(Total Index I) (Sub Index i ₁)	Class '1' Less than 12 Less than 6
	DIN4102 DIN4102 UL94		B2 B1 @ 3 & 6mm thickness V0
Building Regulations			Class '0'

TYPICAL APPLICATIONS

Thermal insulation, gaskets, seals, vibration pads in construction and ventilation industries.

This product is also available with a self adhesive backing – **Flexitec-FR (Flexitec-PN1-AD3 for sheets or cut parts)**

ADHESION PROPERTIES

Peel adhesion to painted steel (180°)	N/mm	24hr >1000
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Features

Benefits

100% closed cell structure:

Will not allow water to pass through and does not require large compression factors to affect a seal.

Chemically inert:

Excellent ageing characteristics and good solvent/oil resistance.

High initial grab:

Ultimate bond strength achieved immediately with a degree of relocatability.

APPLICATION

FLEXITEC-FR should be applied to surfaces free from dust, grease and moisture and not below 10°C. The tape is applied by removing the silicone release liner and adhering the open face to the substrate. If applied lightly, **FLEXITEC-FR** can be removed and re-aligned. Increased adhesion is obtained by applying firm uniform pressure to the tape after application. **FLEXITEC-FR** can be cut with a knife or scissors and should be butted carefully without overlapping. Immediate bond strength is permanent but will reach a peak after 24 hours.

FLEXITEC-FR is supplied in coil form, any width of coil may be specified from 9mm to 950mm

Also available in sheets or cut parts ref: **FLEXITEC-PN1-AD3**.