

# Datasheet

ENGLISH

## RS PRO Adhesive PUR Foam Acoustic Insulation

Stock No: 293-120

### Text to Samples

#### Sound absorption materials.

- 1) **P19/A14/F01**  
Self-adhesive backed Polyurethane foam with cleanable aluminised film facing to resist the ingress of moisture and dust.
- 2) **P19/A14/F02**  
Self-adhesive backed Polyurethane foam with black polyurethane film facing.  
Good resistance to fuel oils and chemicals protects against ingress of moisture and dust.
- 3) **P19/U18/F02**  
Self-adhesive backed polyester fibre with black polyurethane facing.  
Base material is low smoke and toxicity emitting in a fire situation.
- 4) **P19/A14/F03**  
Self-adhesive backed Polyurethane foam with a charcoal coloured facing of Tedlar<sup>®</sup> Film suitable for use in hostile environments.  
Shows excellent resistance to chemicals.
- 5) **P19/U18/F03**  
Self-adhesive backed Polyester fibre with a Tedlar<sup>®</sup> Film suitable for use in hostile environments.  
Shows excellent resistance to chemicals.
- 6) **P19/I01/F02**  
Self-adhesive backed Non Combustible Polyurethane foam for use in high fire risk areas.  
Faced with black Polyurethane film for moisture & dust protection.
- 7) **P19/I01/F03**  
Self-adhesive backed Non Combustible Polyurethane foam for use in high fire risk areas.  
Faced with Tedlar<sup>®</sup> Film suitable for use in hostile environments.  
Shows excellent resistance to chemicals.

## Text to Samples

### Materials for the reduction of sound transmission

- P15/D05**  
8) Self-adhesive backed polymeric High Mass noise barrier.  
Increases transmission loss & decreases vibration.
- P15/D05/A14/F02**  
9) Noise problem composite containing High Mass barrier for transmission loss & absorption layer. For use in areas requiring reduction at high & low frequency.
- P15/D05/U18/F02**  
10) Self-adhesive backed Noise problem composite containing High Mass barrier for transmission loss & absorption layer. For use in areas requiring reduction at high & low frequency.  
Base material is polyester fibre with black polyurethane facing low smoke and toxicity emitting in a fire situation.
- P15/D05/A14//F03**  
11) Noise problem composite containing High Mass barrier for transmission loss & absorption layer. For use in areas requiring reduction at high & low frequency.  
with a charcoal coloured facing of Tedlar<sup>®</sup> film suitable for use in hostile environments. Shows excellent resistance to chemicals.
- P15/D05/U18/F03**  
12) Self-adhesive backed Noise problem composite containing High Mass barrier for transmission loss & absorption layer. For use in areas requiring reduction at high & low frequency with a charcoal coloured facing of Tedlar<sup>®</sup> Film suitable for use in hostile environments. Shows excellent resistance to chemicals.



**MATERIAL CODE : F03**

**PRODUCT DATA**

**Description :**

F03 is a Tedlar Film for facing material in very hostile conditions.

**Base Polymer:**

Poly Vinyl Fluoride

**Scope of Supply:**

Cut from a roll in linear metres - Roll width 1000mm - Generally bonded to substrate materials.

**Applications:**

Facing material resistant to chemicals, solvents and staining, it is extremely flexible and fatigue resistant with an outstanding temperature range of  $-100^{\circ}\text{F}$  to  $225^{\circ}\text{F}$  ( $-73^{\circ}\text{C}$  to  $107^{\circ}\text{C}$ ).

Further data is available on request.

**Sample**

**This information is based upon our best current knowledge and is intended as a general guide to product performance. The correct use of our products is the responsibility of the user.**



**Typical Physical Properties :**

PROPERTIES	TEST METHOD	UNITS OF MEASURE	TYPICAL VALUE
AREA FACTOR		FT <sup>2</sup> /lb	87
		M <sup>2</sup> /KG	17.8
ULTIMATE TENSILE STRENGTH	Instrol ASTM D-882-80 Method A - 100% Min	kpsi Mpa	8 55
TENSILE MODULUS (MD)	Instrol ASTM D-882-80 Method A - 10% Min	kpsi MPa	305 2,103
ULTIMATE ELONGATION MIN (MD)	Instrol ASTM D-882-80 Method A - 100% Min	%	90
BURSTING STRENGTH	Mullen ASTM D-774-67 (1971)	psi/mil	28.9
		Mpa/m	7,845
TEAR STRENGTH PROPAGATING (MD)	Elmendorf ASTM D-1922-67 (1978)	g/mil	23.1
		kN/m	8.9
TEAR STRENGTH PROPAGATING (TD)	Elmendorf ASTM D-1922-67 (1978)	g/mil	18.6
		kN/m	7.2
TEAR STRENGTH INITIAL (MD)	Graves ASTM D-1004-66 (1981)	g/mil	333
		kN/m	129
TEAR STRENGTH INITIAL (TD)	Graves ASTM D-1004-66 (1981)	g/mil	264
		kN/m	102
IMPACT STRENGTH	Spencer ASTM D-3420-80	in.lb/mil	9.6
		kJ/m	42.7
SPECIFIC GRAVITY	ASTM D-1505-68 (1979)		1.46
COEFFICIENT OF FRICTION FILM/METAL	ASTM D-1894-78		0.18
COEFFICIENT OF ABRASION	ASTM D-658-81		385
MOISTURE ABSORPTION	ASTM D-570-81	%	7.6
MOISTURE VAPOR TRANSMISSION	ASTM E-96E-80	g/m. <sup>2</sup> d	24.5

**This information is based upon our best current knowledge and is intended as a general guide to product performance. The correct use of our products is the responsibility of the user.**



**MATERIAL CODE : F02**

**PRODUCT DATA**

**Description :**

Polyurethane film showing high abrasion resistance, flexibility, resistance to oils, greases and solvents. It has good resistance to weather/radiation energy and also liquids, but retaining high water vapour permeability.

**Base Polymer:**

Polyesterurethane Ester

Colour: Black

**Application:**

Backing film for porous materials to allow vacuum forming as facing material in direct moulding application and as facing material in hostile environments. Good resistance to soiling, penetration of liquids and degradation used as protective backing to Elastomer/Foam materials to avoid water ingress.

**Sample**

**This information is based upon our best current knowledge and is intended as a general guide to product performance. The correct use of our products is the responsibility of the user.**



**Typical Physical Properties :**

PROPERTIES	TEST METHOD	UNITS OF MEASURE	TYPICAL VALUE	TOLERANCE RANGE
GRADE			2102	
DENSITY	DIN 53479	G/CM <sup>3</sup>	1.23	
MELTING RANGE	SKALPEL METHOD	°C		133-145
WATER VAPOUR TRANSMISSION [g/(m <sup>2</sup> x 24 h)] 23°C/85% r F	DIN 53122		80	
SHORE A HARDNESS	DIN 53505		93	
TENSILE STRENGTH AT BREAK		N/MM <sup>2</sup>	70	
ELONGATION AT BREAK	DIN 53455	%	430	
TEAR PROPAGATION RESISTANCE	DIN 53515	N/MM <sup>2</sup>	75	
TENSION AT 50% ELONGATION	DIN 53455	N/MM <sup>2</sup>	9	

**This information is based upon our best current knowledge and is intended as a general guide to product performance. The correct use of our products is the responsibility of the user.**



**MATERIAL CODE : F01**

**PRODUCT DATA**

**Description :**

Metallized polyester film for oxygen and moisture barrier, giving a good quality finish when applied to foam slabstock.

**Base Polymer:**

Polyester/Melinex

**Fire Specification:**

Underwriters Laboratories UL94

**Scope of Supply:**

From roll bonded to substrate in linear metres - Roll width 1400mm

**Application:**

Moisture barrier for facing of absorbent panels, typically for Pump Enclosures and Engine Rooms, it is not for close fit to engines or hot surfaces. Food industry application requires FDA 21 CFR 177.1630 and BGA Empfehlung XV11 standards for food contact.

**Sample**

**This information is based upon our best current knowledge and is intended as a general guide to product performance. The correct use of our products is the responsibility of the user.**





ENGLISH

**Typical Physical Properties :**

<b>RAW MATERIAL</b>	General purpose grades of polyester film complying with FDA 21 CFR 177.1630 and BGA Empfehlung XV11 s
<b>YIELD</b>	59 m <sup>2</sup> /Kg 31 m <sup>2</sup> /Kg
<b>OXYGEN BARRIER</b>	Typical Range 0.5 - 0.8cc/m <sup>2</sup> /24 hrs/1 atmos Limit 98% < 1.0 cc/m <sup>2</sup> /24 hrs/1 atmos (Test Method: Mocon Oxtran 23°C 0% RH)
<b>MOISTURE BARRIER</b>	LIMIT 98% < 0.2 g/m <sup>2</sup> /24 hrs (Test Method: Laminated to 50 micron LDPE EPS Dynamic 23°C 85% RH)
<b>OPTICAL DENSITY</b>	Typical Range 2.5 - 3.0
<b>METAL ADHESION</b>	100% on standard adhesive tape test (DRG Sellotape Ref 1112)

**This information is based upon our best current knowledge and is intended as a general guide to product performance. The correct use of our products is the responsibility of the user.**