



Composition® is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems. The product is guaranteed to be free from manufacturing defects and carries a Manufacturer's Guarantee for a period of no less than ten years to meet all of the performance properties stated within this guarantee.

Specification

Product name Composition®
Description 100% polyester needle punched, thermally bonded wallcovering

Form	Roll	Panel
Dimensions	1.22 m x 25 m	2.74 m x 1.22 m
Tolerance	(+/- 5 mm) (+/- 10 mm)	(+/- 5 mm) (+/- 10 mm)
Thickness	10 - 12 mm	16 - 18 mm
Tolerance	(+/- 6%)	(+/- 6%)
Weight	Typically 1680 gsm	Typically 2980 gsm
Finish	Smooth or Velour	Smooth or Velour

**Physical description/
properties**

Boiling point:	N/A
Melting point:	250°C
Vapour pressure:	N/A
Specific gravity:	Polyester 1.38
Flash point:	N/A
Explosive limits:	N/A
Solubility in water:	Not soluble
Alkalinity:	pH 7.8
Relative vapour density:	N/A

Acoustic performance

Composition is specifically designed to reduce and control reverberated noise and echo in building interiors.

Noise reduction coefficient 0.40 and 0.55.

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 12 mm Composition	0.00	0.10	0.25	0.55	0.75	0.85	0.40
● 18 mm Composition	0.05	0.15	0.45	0.80	0.95	1.00	0.55



Service

For further information about Composition or any other Autex Acoustics® product, please contact your account manager or visit our website.

Care and maintenance

Maintain in accordance with the Care and Maintenance Guide available for this product.

Product specifications

Composition

100% polyester fibre from polyethylene terephthalate (PET). Composition contains a minimum of 49% recycled polyester fibre.

Suitable applications

Pinboard and acoustic wallcovering. Accepts pins and staples.

Fire ratings

Composition has been evaluated using the following test methods:

ISO 9705: 1993

Classification: Group 1-S
Smoke production rate:
<5.0m²/s
As required by NZBC C/VM2

AS ISO 9705 - 2003

Classification: Group 1
(SMOGR_{arc}): <100m²/s²
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637:2015, as required by NCC Specification 7: Fire Hazard properties: S7C4 FI 4894 and FAR 4055

Thermal performance

Composition 12 mm R0.22 @ 15°C (NZ) R0.20 @ 23°C (AU)
Composition 18 mm R 0.42 @ 15°C (NZ) R 0.40 @ 23°C (AU)

VOC emissions

Autex Acoustics polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered a low VOC product.
VOC concentration:
0.009 mg/m³ (7 days)

Water vapour sorption

ASTM C1104 / C1104M-13a
Test conditions: 49°C, 95%RH
Water vapour absorbed and adsorbed after 4 days:
0.4% by weight

Impact resistance

ISO 7892:1988

Hard body impact

There is no surface damage or penetration to Composition when subjected to hard body impacts. When adhered to 10 mm plasterboard, the system can resist a 9 joule impact. This is equivalent to the impact of a 0.5 kg object dropped from a 2 m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5 kg object dropped from a 0.5 m height.

Soft body impact

There is no surface damage or penetration to Composition when subjected to soft body impacts. When adhered to 10 mm plasterboard, the system can resist a 70 joule impact. This is equivalent to the impact of a 50 kg object dropped from a 150 mm height.

Microbial resistance

ASTM G21-15
Growth rating: 0 (No growth)
Composition does not promote the growth of moulds and mildew.

Colour fastness to light

Composition is suitable for indoor use only.
Light fastness is dependent on use and exposure.
Composition has been evaluated to the following standard:
ISO 105-B02:2014
Rating: 6 (Highest = 7)

Colour fastness to rubbing

ISO 105-X12:2016
Dry rating: 4-5 (Highest = 5)
Wet rating: 4-5 (Highest = 5)

Moisture absorption

Polyester fibre when exposed to an atmosphere of 50°C at 90% relative humidity for four days showed moisture absorption of less than 0.03% by weight. Polyester is not affected by moisture and will not rot or deteriorate in intended use situations.

Fabric care

Blot spills from fabric quickly. Wipe with a damp cloth. Avoid rubbing and excessive amounts of water as this will affect the finish. Use carpet or upholstery shampoo as directed.

Blot with a clean dry cloth after each application of solution.

Refer to the Autex Acoustics Care and Maintenance Guide for more information.

Pattern repeat

Non-woven. No pattern repeat but Composition has a directional grain. Product may vary from samples and batch to batch due to fibre blending and lay-up, which is an inherent feature of this product.

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