



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	2.14 m x 1.22 m, 2.44 m x 1.22 m, 2.74 m x 1.22 m
Thickness	10 - 12 mm	16 - 18 mm
Tolerance	(+/- 5 mm) (+/- 10 mm)	(+/- 5 mm) (+/- 10 mm)
Weight	Typically 1680 gsm	Typically 2980 gsm

**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	0.05	0.10	0.25	0.55	0.80	0.95	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 60% 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 BCA Specification C1.10-4 FI 4894 and FAR 4055

Thermal performance

10 - 12 mm R0.22 @ 15°C (NZ)

R0.20 @ 23°C (AU)

16 - 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 adsorped 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 Composition Care and Maintenance Guide for more information.

Finish

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.

● New Zealand

702-718 Rosebank Road,
Private Bag 1998
Avondale 1746, Auckland
New Zealand
Freephone 0800 428 839
Phone +64 9 828 9179
Fax +64 9 828 5810

● Australia

285 Swan Street,
Richmond, VIC 3121,
Australia
Freephone 1800 678 160
Phone +61 3 9450 6700

● United Kingdom

Unit J4, Lowfields Way,
Lowfields Business Park,
Elland, West Yorkshire
HX5 9DA
United Kingdom
Phone +44 0 142 241 8899

● United States

1630 Dan Kipper Drive,
Riverside, CA 92507
United States of America
Phone +1 424 203 1813

Autex is an ISO certified organisation encompassing Quality (ISO 9001), Environmental (ISO 14001), and Health and Safety (ISO 45001). Brand names and logos are registered or unregistered trademarks owned or used under license by Autex Industries Limited or other members of the Autex Group. © Copyright 2022 Autex Industries Ltd. All rights reserved. It is the user's responsibility to determine if the product and information presented in this document is suitable for the intended application by engaging a suitably qualified consultant. The information contained in this document is correct to the best of our knowledge at the date of its publication. To verify that this document is the most current publication please check our website or contact your Autex account manager.