Autex Acoustics®

Composition®

Manufacturer's Guarantee

Composition® is manufactured by Autex Industries Ltd and Autex Australia Pty Ltd under an ISO 9001 certified Quality Management System. 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

	Metric
Roll Width	1.22m x 25m
Thickness	10-12mm
Tolerance	*(+5mm) (+10mm)*
Weight	Typically 1680gsm

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 (echo) noise in building interiors.

Noise Reduction Coefficient 0.40

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
● 10-12mm Composition	0.05	0.10	0.25	0.55	0.80	0.95	0.40

Service

For further information about Composition® or any other Autex product, please contact your Autex 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
(SMOGRArc): <100m2/s2
Assessed using methodology AS ISO 9705:2003 in accordance with AS 5637.1:2015, as required by BCA Specification C1.10-4
FI 4894 dated 6th June, 2012 and FAR 4055-2 dated 8th October, 2013

EN13501-1:2007
B - s1, d0
Report 189053 dated 7th December, 2009

ASTM E84 - 14
Class A, FS:5 - SD:25
Report RJ3297-9R1 dated 17th March, 2015

Thermal Performance
R0.22 (@15°C)

VOC Emissions
Autex polyester has been tested for chemical emissions in accordance with ASTM D5116 and is considered as 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 10mm plasterboard, the system can resist a 9-joule impact. This is equivalent to the impact of a 0.5kg object dropped from a 2m height. A small indentation might be observed when subjected to an impact equivalent to the impact of a 0.5kg 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 10mm plasterboard, the system can resist a 70-joule impact. This is equivalent to the impact of a 50-kg object dropped from a 150mm 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.

Custom printed Composition requires the services of a specialist cleaning company. Refer to the Composition Cleaning and Maintenance Guide for more information.

Pattern Repeat
Non-woven. No pattern repeat but product has 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.

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.

Environmental

Autex is committed to best practice through our ISO 9001 and ISO 14001 certified Quality and Environmental Management Systems.

Autex Composition contains a minimum of 60% previously recycled polyester fibre (from PET bottle-flake). Off-cuts and manufacturing waste are re-used or recycled wherever possible.

Autex Composition is manufactured from 100% polyester fibres and does not contain formaldehyde binders. Autex polyester fibres support safer indoor air quality and will not become a potential airborne pollutant.

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