

INTERIOR ACOUSTICS


COMPOSITION

MANUFACTURERS 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.

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

Noise Reduction Coefficient 0.40
 Acoustic testing to ISO 354, University of Auckland Testing Service
 Composition® - Test No. T0814-2b

AUTEX 	METRIC	IMPERIAL
Roll Width	1.22m x 25m	48" x 82'
Thickness	10-12mm	0.39" - 0.47"
Weight	Typically 1680gsm	

Frequency (Hz)	125	250	500	1000	2000	4000	NRC
Composition®	0.05	0.10	0.25	0.55	0.80	0.95	0.40

COMPOSITION

100% Polyester Fiber from polyethylene terephthalate (PET). Composition® contains a minimum of 60% recycled polyester fiber.

SUITABLE APPLICATIONS

Pinboard and acoustic wallcovering. Accepts pins and staples.

COLOR 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)

COLOR FASTNESS TO RUBBING

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

FIRE RATINGS

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 5637.1:2015, as required by BCA Specification C1.10-4
 FI 4894 dated 6th June, 2012

EN13501-1:2007+A1:2009

B - s1, d0
 Report 189053 dated 7th December, 2009

ASTM E-84-14

Class A, FS:5 - SD:25
 RJ32979R1 dated 17th March, 2015

ACOUSTIC PERFORMANCE

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

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)

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

FINISH

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

PHYSICAL DESCRIPTION / PROPERTIES

Boiling Point:	N/A
Melting Point:	250°C 482°F
Vapor 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 Vapor Density:	N/A

CARE AND MAINTENANCE

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

