



CERTIFICATE

CHEMICAL &
HEAVY METAL LEVEL

Kleenclad K-Bio, K-Ultra, K-Guard PVC Sheet

Classification by EN15102:2007 + A1:2011

Test methodology: EN 12149

Test Date: 31/08/2023

Test Result:

Test A - Heavy metals <.2mg/kg

Test B - Vinyl chloride <0.2mg/kg

Test C - Formaldehyde <0.5mg/kg





CERTIFICATE

SALT & MIST
DURABILITY

Kleenclad K-Bio, K-Ultra, K-Guard PVC Sheet

BS EN 60068-2-11:1999 Test

Result: No changes due to Salt / Mist

Test Authority: PARC, UK

Test Date: 06/02/2024

Test Report: 4E13117-1





CERTIFICATE

IP66
(WATER / DUST INGRESS)

Kleenclad K-Bio, K-Ultra, K-Guard PVC Sheet

UKAS: BS EN 60529:1992+A2:2013

Certified

- 1. IPX6 – No water ingress**
- 2. IP6X – No dust ingress**

Test Authority: PARC, UK

Test Date: 06/02/2024

Test Report No: 4E13117





CE Marked

**Kleenclad K-Ultra 1.9 – 2.5mm PVC Sheets
(CE-PVCFS-000001-04)**

Harmonised Standard: EN 15102:2007 +A1:2011

0071 – Laboratoire national de métrologie et d'essais (LNE)

- | | |
|------------------------------------|--|
| 1. Reaction to fire | B-s3, d0 |
| 2. Release of formaldehyde | Tested to EN12149, TestC
<0.5mg/kg - Passed |
| 3. Release of heavy metals and | Tested to EN12149, TestA
<0.2mg/kg - Passed |
| 4. Release of vinyl chloride (VCM) | Tested to EN12149, TestB
<0.2mg/kg - Passed |





CE Marked

**Kleenclad K-Guard 1.9 – 2.5mm PVC Sheets
(CE-PVCFS-000001-03)**

Harmonised Standard: EN 15102:2007 +A1:2011

0071 – Laboratoire national de métrologie et d'essais (LNE)

- | | |
|------------------------------------|--|
| 1. Reaction to fire | B-s3, d0 |
| 2. Release of formaldehyde | Tested to EN12149, TestC
<0.5mg/kg - Passed |
| 3. Release of heavy metals and | Tested to EN12149, TestA
<0.2mg/kg - Passed |
| 4. Release of vinyl chloride (VCM) | Tested to EN12149, TestB
<0.2mg/kg - Passed |





CE Marked

Kleenclad K-Bio 1.9 – 2.5mm PVC Sheets

(CE-PVCFS-000001-02)

Harmonised Standard: EN 15102:2007 +A1:2011

0071 – Laboratoire national de métrologie et d'essais (LNE)

- | | |
|------------------------------------|--|
| 1. Reaction to fire | B-s3, d0 |
| 2. Release of formaldehyde | Tested to EN12149, TestC
<0.5mg/kg - Passed |
| 3. Release of heavy metals and | Tested to EN12149, TestA
<0.2mg/kg - Passed |
| 4. Release of vinyl chloride (VCM) | Tested to EN12149, TestB
<0.2mg/kg - Passed |





CERTIFICATE

ANTIMICROBIAL EFFICACY

Kleenclad K-Bio PVC sheets

Antimicrobial activity based on MOD ISO 22196

Tested for E Coli, MRSA – Log reduction > 99.91%

Test Authority: IMSL

Test Date: 03/07/2023

Test No: 1046067.185/17135



POLYGIENE



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IMPACT RESISTANCE

Kleenclad K-Bio, K-Ultra, K-Guard PVC Sheet

UKAS: BS EN 62262:2002 IK10 test

- Impact Energy: 20.0 Joules \pm 5%.
- Mass equivalent 5.0kg \pm 2% steel weight applied using vertical hammer method from a height of 400mm \pm 1% as per BS EN ISO 60068 2-75:2014 Test Ehc.
- Testing conducted at lab ambient conditions.
- Number of impacts: five on each exposed face.
- EUT to be placed against a rigid surface covered by a sheet of polyamide.

Good Impact Resistance with no visible damage



Test Authority: PARC, UK
Test Date: 06/11/2023
Test Report: 4E13117-2



CERTIFICATE

FIRE CLASSIFICATION

Kleenclad K Bio, K Ultra, K Guard PVC sheets

Classification by BS EN ISO 13501-1:2018

B s3 d0

Test Authority: BTTG Testing & Certification Limited, UK

Test Date: 08/01/2024

Test Reference: 27/06336A/12/23





CERTIFICATE

V O C C O N T E N T

DUOBOND 2 PART ADHESIVE

Certified for VOC free (< 1%)

Test Directive: 2004/42/EC

Test Date: 21/11/2023

Test Reference: Stockmeier





CERTIFICATE

ADHESIVE STRENGTH

DUOBOND 2 PART ADHESIVE

Certified for Adhesive Strength of -

- 140.69 N/mm for Plain Kleenclad sheets
- 288.34 N/mm for Etched Kleenclad sheets
- 294.39 N/mm for Solvent wiped Kleenclad sheets
- 326.89 N/mm for Etched and Solvent wiped Kleenclad sheets

Test Method: Lap Shear

Test Date: 24/11/2023

Test Report No: 1399





CERTIFICATE

ANTIMICROBIAL EFFICACY

Kleenclad BIOWELD

Antimicrobial activity based on MOD ISO 22196

Tested for E Coli, MRSA – Log reduction > 99.47%

Test Authority: IMSL

Test Date: 12/06/2023

Test No: 1045985.119/17097



POLYGIENE