

ALPOLIC NC Technical Note on Adhesive Layer

April 2020

Following the announcement by Mitsubishi Chemical Corporation on January 14, 2020 that ALPOLIC has passed the European Fire Standard “Euroclass A1” tested in accordance with EN13501-1, we are pleased to inform you that ALPOLIC NC is now A1 Classified. This is the first ACM in the world to be certified under the Euroclass A1 standard, which is a milestone in ACM history. ALPOLIC NC is a Deemed-to-Satisfy (DtS) panel which fully complies with Clause C1.9(e)(vii) of the National Construction Code.

ALPOLIC NC is the first ACM to fall under Category D (non-combustible) in the Insurance Council of Australia Hazard Identification and Category Rating Guide, which is the BEST possible rating.

This is the Insurance Council of Australia Hazard Identification and Category Rating Guide.

Category	Polymer Percentage ^[1]	Polymer%	Inert Filler%
A	30-100% Polymer and 0-70% inert materials	30-100%	0-70%
B	8-29% Polymer and 71-92% inert materials	8-29%	71-92%
C	1-7% Polymer and 93-99% inert materials	1-7%	93-99%
D	0% Polymer and 100% inert materials or deemed non-combustible by the NCC	0%	100%

Deemed-non-combustible to BCA 2019

This is in compliance with Clause C1.9(e)(vii) of the National Construction Code, specifically relating to the use of bonded and laminated products wherever a non-combustible material is required:

- each lamina, including any core, is non-combustible; and
- each adhesive layer does not exceed 1mm in thickness and the total thickness of the adhesive layers does not exceed 2mm; and,
- the Spread-of-Flame Index and the Smoke-Developed Index of the bonded laminated material as a whole do not exceed 0 and 3 respectively.

While there are products that have claimed to be DtS under Clause C1.9(e)(vii) of the National Construction Code, we wish to share that the adhesive layer in ALPOLIC NC/A1 is less than 0.05 mm in thickness on each side and total thickness of adhesive layer is less than 0.10 mm.

Under the ISO 1716 test, which is one of the mandatory tests under EN13501-1, 1mm of adhesive layer would not be able to meet the heat potential criteria even for an A2 Classification. However, the total thickness of adhesive layer allowable under NCC C1.9(e)(vii) is 2mm.

Please also note that ALPOLIC NC/A1 has ZERO polyethene as tested at ExcelPlas, a well-respected NATA Accredited laboratory in Australia and one only three official laboratories in Australia that are recommended by the Insurance Council of Australia. For a copy of this report, please don't hesitate to contact our exclusive ALPOLIC distributor in Australia:

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