

|                       | VR 2.0   |                                  |                                  |
|-----------------------|--|----------------------------------|----------------------------------|
|                       | VN 2.0   |                                  |                                  |
| <b>DESCRIPTION</b> Re | Reinforced Natural Kraft-Polyproplylene Film Laminate          |                                  |                                  |
| APPLICATIONS Me       | Metal Building Insulation and Ceiling Board Insulation Facings |                                  |                                  |
| CERTIFICATIONS Me     | eets all criteria for ASTM C1136 Types                         | IV - UL 723/ASTM E84, ULC-S      | S102M fire testing               |
|                       | COMPOSITI  | ON                               |                                  |
|                       | VALUES*  |                                  |                                  |
| COMPONENT             | DESCRIPTION  | English                          | Metric                           |
| White Film            | Polypropylene  | 0.0011 inch                      | 28.0 micron                      |
| Adhesive              | Flame Resistant  |                                  |                                  |
| Reinforcement         | Tri-directional Fiberglass                                     | 5/inch (MD)<br>4/inch (CD)       | 20/100 mm (MD)<br>16/100 mm (MD) |
| Kraft                 | Natural  | 11 lb./3000 SF                   | 18.5 g/SM                        |
|                       |  |                                  |                                  |
|                       | TYPICAL PHYSICAL F   |                                  |                                  |
|                       |  | <u>VALUES*</u>                   |                                  |
| <u>CHARACTERISTIC</u> | <u>METHOD</u>  | <u>ENGLISH</u>                   | METRIC                           |
| BASIS WEIGHT          | Scale  | 15.5 lbs/1000 SF                 | 69.1 g/SM                        |
| THICKNESS             | ASTM D1777   | 0.008"                           | 203 microns                      |
| PERMEABILITY (WVTR)   | ASTM E96   | 0.09 Perms                       | 5.17 ng/N's                      |
| BURST STRENGTH        | ASTM D774  | 60 psi                           | 4.2 kg/cm <sup>2</sup>           |
| TENSILE STRENGTH      | ASTM C1136   | 40 lbs/inch MD<br>30 lbs/inch CD | 7.0 kN/m<br>5.25 kN/m            |
| ACCELERATED AGING     | 30 days @<br>95% RH, 120 °F (49°C)                             | No Corrosion<br>No Delamination  | No Corrosion<br>No Delamination  |
| TEMPERATURE RESISTAN  | ICE  | -40 °F to 220 °F                 | -40 °C to 104 °C                 |
| WATER IMMERSION       | 24 hours @ 73°F (23°C)   | No Delamination                  | No Delamination                  |
| MOLD RESISTANCE       | ASTM C1338   | No Growth                        | No Growth                        |
| LIGHT REFLECTIVITY    | ASTM C523  | 85%                              | 85%                              |
|                       | Physical properties are based upon nominal val                 | lues. Weight / Thickness +/- 10% |                                  |
| FIRE TESTING          |  | 723/ASTM E84                     |                                  |
|                       | Composit   | <u>e Film Kraft</u>              |                                  |

DATA SHEET # 14078 REV. C DATE: 10/07/13 \*All values are nominal unless otherwise specified.

FLAME SPREAD

**SMOKE DEVELOPED** 

Note: Alpha's metal building insulation facings are produced with plastic films containing ultraviolet (UV) inhibitors, however, intense exposure to UV sources such as direct or indirect sunlight and/or high-output UV lighting is not recommended as these will degrade the plastic film facing.

25

50

5

20

0

15