

| Physical Properties <sup>1</sup>                           | ASTM Method | English Units <sup>2</sup>        | Metric Units <sup>2</sup> |
|--|-------------|-----------------------------------|---------------------------|
| Density <sup>3</sup>                                       | D 1622      | 2.5 lb/ft <sup>3</sup>            | 40.1 kg/m <sup>3</sup>    |
| Compressive Strength <sup>3</sup> (10% deflection)         | D 1621      |                                   |                           |
| Parallel to Rise   |             | 37 lb/in <sup>2</sup>             | 255 kPa                   |
| Perpendicular to Rise                                      |             | 31 lb/in <sup>2</sup>             | 214 kPa                   |
| Compressive Strength (28 day exposure to 400F)             | C 273       |                                   |                           |
| Parallel to Rise   |             | 18.26 lb/in <sup>2</sup>          | 126 kPa                   |
| Thermal Conductivity: K-Factor (@ 1" 10-day initial)       | C 518       | 0.15 BTU-in/hr-ft <sup>2</sup> -F | 0.022 W/m-C               |
| Thermal Conductivity: K-Factor (@ 1" aged 6 months @ 75F)  | C 518       | 0.18 BTU-in/hr-ft <sup>2</sup> -F | 0.026 W/m-C               |
| Thermal Conductivity: K-Factor (@ 1" aged 3 months @ 140F) | C 518       | Pending                           | Pending                   |
| Closed Cell Content  | D 2856      | >95 %                             | >95 %                     |
| Water Absorption (24-hour immersion)                       | C 272       | 0.1 % by volume                   | 0.1 % by volume           |
| Water Vapor Transmission                                   | E 96        | 2.23 perm-inch                    | 3.25 ng/Pa-s-m            |
| Service Temperature  |             | -297 to +400F                     | -183 to +204C             |
| Dimensional Stability <sup>4</sup>                         | D 2126      |                                   |                           |
| @ -30F (-34C), 7 days:                                     |             |                                   |                           |
| Length   |             | <+0.1 % Change                    | <+0.1 % Change            |
| Volume   |             | <+0.1 % Change                    | <+0.1 % Change            |
| @ 158F (70C)/95% RH, 7 days:                               |             |                                   |                           |
| Length   |             | <+1.0 % Change                    | <+1.0 % Change            |
| @ 212F (100C), 7 days:                                     |             |                                   |                           |
| Length   |             | <+0.2 % Change                    | <+0.2 % Change            |
| Volume   |             | <+1.2 % Change                    | <+1.2 % Change            |
| @ 400F (204C), 28 days, dry heat                           |             | No Change                         | No Change                 |
| Surface Burning Characteristics <sup>5</sup>               |             |                                   |                           |
| Flame Spread @ 4" (10 cm)                                  | E 84        | 25                                | 25                        |
| Smoke Density @ 4" (10 cm)                                 | E 84        | 160                               | 160                       |
| Hot Surface  | C 411       | TBD                               | TBD                       |

- Physical properties are measured at 70-75F, unless otherwise indicated, and all test values are from independent certified testing laboratories.
- These are nominal values obtained from representative product samples, and are subject to normal manufacturing variances.
- Average value through the foam cross section.
- Frequent and severe thermal cycling can produce dimensional changes significantly greater than those listed here. Special design considerations must be made in systems subject to severe cycling.
- This numerical flame spread data is not intended to reflect hazards presented by this or any other material under actual fire conditions.
- FITNESS FOR USE MUST BE DETERMINED BY BUYER AND ENGINEER; DYPLAST PRODUCTS DOES NOT WARRANT FITNESS FOR USE.**

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