

# Physical Properties of DREW FOAM - EPS

Specification Reference ASTM C578

| Property   | Unit              | ASTM Test | Type XI  | Type I   | Type VIII | Type II   | Type IX   | Type XIV  | Type XV  |
|--|-------------------|-----------|----------|----------|-----------|-----------|-----------|-----------|----------|
| Common Designation   | pcf               |           | .75#     | 1#       | 1.25#     | 1.5#      | 2#        | 2.5#      | 3#       |
| Density, minimum   | pcf               | D1622     | 0.70     | 0.90     | 1.15      | 1.35      | 1.80      | 2.25      | 2.70     |
| Density, range   | pcf               | C303      | .70-.89  | .90-1.14 | 1.15-1.34 | 1.35-1.79 | 1.80-2.20 | 2.25-2.69 | 2.70-3.1 |
| Thermal Resistance<br>R- Value                                     | (per inch) @ 25°F | C518      | 3.6      | 4.4      | 4.6       | 4.8       | 5.0       | 5.0       | 5.1      |
|  | (per inch) @ 40°F |           | 3.4      | 4.2      | 4.3       | 4.6       | 4.8       | 4.8       | 5.0      |
|  | (per inch) @ 75°F |           | 3.2      | 3.9      | 3.9       | 4.2       | 4.4       | 4.4       | 4.6      |
| Compressive Strength   | psi               | D1621     | 5.0      | 10.0     | 13.0      | 15.0      | 25.0      | 40.0      | 60.0     |
| Flexural Strength min.   | psi               | C203      | 10.0     | 25.0     | 30.0      | 35.0      | 50.0      | 60.0      | 75.0     |
| Water Vapor Permeability<br>Water Absorption<br>by total immersion | (perms)           | E96       | 5.0      | 5.0      | 3.5       | 3.5       | 2.5       | 2.5       | 2.5      |
|  | (max.% volume)    | C272      | 4.0      | 4.0      | 3.0       | 3.0       | 2.0       | 2.0       | 2.0      |
| Oxygen Index   | %                 | D2863     | 24       | 24       | 24        | 24        | 24        | 24        | 24       |
| Dimensional<br>Stability   | %<br>Change       | D2126     | max.     | max.     | max.      | max.      | max.      | max.      | max.     |
|  |                   |           | 2.0      | 2.0      | 2.0       | 2.0       | 2.0       | 2.0       | 2.0      |
| Coefficient of Thermal Expansion                                   | in./in. (F)       | D696      | 0.000035 | 0.000035 | 0.000035  | 0.000035  | 0.000035  | 0.000035  | 0.000035 |
| Maximum Service Temperature<br>Long-term<br>Intermittent           | F                 |           | 167      | 167      | 167       | 167       | 167       | 167       | 167      |
|  |                   |           | 180      | 180      | 180       | 180       | 180       | 180       | 180      |

Drew Foam EPS has a flame spread index of < 25 and smoke-development of less than 450 when tested in accordance with ASTM E84 for all densities listed. See ASTM C578 for standard test methods and detailed information.

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