

**NexKemia's NexTherm** materials offer new options for improved EPS insulating performance. The physical properties of the **MT series**; NexKemia's premier grades of Graphite EPS (GPS), are as follows:

| ASTM C578                                 |                                   | MT Series (Graphite Polystyrene) |           |         |         |          |         |
|---|-----------------------------------|----------------------------------|-----------|---------|---------|----------|---------|
| Property*                                 | Unit                              | Type I                           | Type VIII | Type II | Type IX | Type XIV | Type XV |
| Density                                   | Pcf, minimum                      | 0.9                              | 1.15      | 1.35    | 1.8     | 2.40     | 3.0     |
| Thermal Resistance (R-Value)**            | ft <sup>2</sup> ·h·°F/Btu at 75°F | 5.0                              | 5.0       | 5.0     | 5.0     | 4.9      | 4.8     |
|   | ft <sup>2</sup> ·h·°F/Btu at 40°F | 5.4                              | 5.4       | 5.4     | 5.4     | 5.2      | 5.0     |
|   | ft <sup>2</sup> ·h·°F/Btu at 25°F | 5.6                              | 5.6       | 5.6     | 5.5     | 5.3      | 5.2     |
| Compressive Resistance<br>10% Deformation | psi, minimum                      | 10                               | 13        | 15      | 25      | 40       | 60      |
| Flexural Strength                         | psi, minimum                      | 25                               | 32        | 39      | 50      | 60       | 75      |
| Water Vapor Permeance                     | perm-in, max                      | 4.0                              | 3.0       | 3.0     | 2.5     | 2.0      | 2.0     |
| Water Absorption<br>By Total Immersion    | % by Volume Max                   | 1.2                              | 1.2       | 1.2     | 1.0     | 1.0      | 1.0     |
| ASTM E84/UL723                            |                                   |                                  |           |         |         |          |         |
| Flame Spread                              | Index                             | 0                                |           |         |         |          |         |
| Smoke Development                         | Index                             | 15                               |           |         |         |          |         |

\*NexTherm MT Series meets ASTM C578 « Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation ». ULEX listing R26178. The data provided are typical results. Final properties may vary depending upon expansion and molding parameters.

\*\*R-Value properties are based upon 1-1/16" thickness.