

Tarecpur™ Rigid Polyurethane Insulation 35-60 kg/m³ / 2.1-5.0 lb/ft³

General Physical Properties (Metric)

| Property | Test Method | Unit | Typical Value | | | | | |
|---------------------------------------|--|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Nominal Density | (EN ISO 845) / (ASTM D 1622) | kg/m ³ | 35 | 37 | 40 | 42 | 0 | 60 |
| Thermal Conductivity at +10°C | (EN 12667) / (ASTM C 518) | W/m·K | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 | 0.024 |
| Colour | | | Cream | Cream | Cream | Cream | Cream | Cream |
| Closed Cell Content | (EN ISO 4590) Method 1 (ASTM D 2856) Method B | % | ≥ 95 | ≥ 95 | ≥ 95 | ≥ 95 | ≥ 95 | ≥ 95 |
| Operating Temperature Limits | Upper Limit Lower Limit | °C °C | +100 -180 | +100 -180 | +100 -180 | +100 -180 | +100 -180 | +100 -180 |
| Minimum Compressive Strength at +23°C | (EN 826) / (ASTM D 1621) Parallel Perpendicular | kPa kPa | 190 120 | 210 130 | 250 160 | 270 190 | 370 250 | 500 340 |
| Minimum Tensile Strength at +23°C | (ASTM D 1623) Parallel Perpendicular | kPa kPa | 430 300 | 450 320 | 470 340 | 490 350 | 600 450 | 700 530 |
| Linear Dimensional Stability | (EN 1604) / (ASTM D 2126) +93°C for 24 hours -30°C for 24 hours +70°C for 48 hours and 95% RH | % % % | ≤ 0.5 ≤ 1 ≤ 3 | ≤ 0.5 ≤ 1 ≤ 3 | ≤ 0.5 ≤ 1 ≤ 3 | ≤ 0.5 ≤ 1 ≤ 3 | ≤ 0.5 ≤ 1 ≤ 3 | ≤ 0.5 ≤ 1 ≤ 3 |
| Friability for 10 mins | (ASTM C 421) | % | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 |
| Linear Expansion Coefficient | (ASTM D 696) | m/m·K | 40-70 x 10 ⁻⁶ | 40-70 x 10 ⁻⁶ | 40-70 x 10 ⁻⁶ | 40-70 x 10 ⁻⁶ | 40-70 x 10 ⁻⁶ | 40-70 x 10 ⁻⁶ |
| Water Absorption | (ISO 2896) | Vol % | ≤ 5.0 | ≤ 5.0 | ≤ 5.0 | ≤ 5.0 | ≤ 5.0 | ≤ 5.0 |
| Water Vapour Permeability | (ASTM E 96) | ng/Pa.s.m | ≤ 5.5 | ≤ 5.5 | ≤ 5.5 | ≤ 5.5 | ≤ 5.5 | ≤ 5.5 |

General Physical Properties (Imperial)

| Property | Test Method | Unit | Typical Value | | | | | |
|---------------------------------------|--|-------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Nominal Density | (EN ISO 845) / (ASTM D 1622) | lb/ft ³ | 2.1 | 2.3 | 2.5 | 2.6 | 3.1 | 3.75 |
| Thermal Conductivity at +50°F | (EN 12667) / (ASTM C 518) | Btu-in/hr-ft ² ·°F | 0.166 | 0.166 | 0.166 | 0.166 | 0.166 | 0.166 |
| Colour | | | Cream | Cream | Cream | Cream | Cream | Cream |
| Closed Cell Content | (EN ISO 4590) Method 1 (ASTM D 2856) Method B | % | ≥ 95 | ≥ 95 | ≥ 95 | ≥ 95 | ≥ 95 | ≥ 95 |
| Operating Temperature Limits | Upper Limit Lower Limit | °F °F | +212 -292 | +212 -292 | +212 -292 | +212 -292 | +212 -292 | +212 -292 |
| Minimum Compressive Strength at +73°F | (EN 826) / (ASTM D 1621) Parallel Perpendicular | psi psi | 28 17 | 31 19 | 36 23 | 39 28 | 54 37 | 73 49.3 |
| Minimum Tensile Strength at +73°F | (ASTM D 1623) Parallel Perpendicular | psi psi | 62 44 | 65 46 | 68 49 | 71 51 | 87 65 | 102 77 |
| Linear Dimensional Stability | (EN 1604) / (ASTM D 2126) +199.4°F for 24 hours -22°F for 24 hours +158°F for 48 hours and 95% RH | % % % | ≤ 0.5 ≤ 1 ≤ 3 | ≤ 0.5 ≤ 1 ≤ 3 | ≤ 0.5 ≤ 1 ≤ 3 | ≤ 0.5 ≤ 1 ≤ 3 | ≤ 0.5 ≤ 1 ≤ 3 | ≤ 0.5 ≤ 1 ≤ 3 |
| Friability for 10 mins | (ASTM C 421) | % | < 15 | < 15 | < 15 | < 15 | < 15 | < 15 |
| Linear Expansion Coefficient | (ASTM D 696) | ft/ft·K | 40-70 x 10 ⁻⁶ | 40-70 x 10 ⁻⁶ | 40-70 x 10 ⁻⁶ | 40-70 x 10 ⁻⁶ | 40-70 x 10 ⁻⁶ | 40-70 x 10 ⁻⁶ |
| Water Absorption | (ISO 2896) | Vol % | ≤ 5.0 | ≤ 5.0 | ≤ 5.0 | ≤ 5.0 | ≤ 5.0 | ≤ 5.0 |
| Water Vapour Permeability | (ASTM E 96) | Perm inch | ≤ 3.8 | ≤ 3.8 | ≤ 3.8 | ≤ 3.8 | ≤ 3.8 | ≤ 3.8 |

