

eFoam Physical (EB) Crosslinked Properties

| Expansion Ratio | | 3 | 4 | 5 | 8 | 10 | 12 | 15 | 18 | 20 | 25 | 30 | 35 | 40 | Test Method |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------|
| Density (kg/m ³) | Lower | 264.3 | 192.7 | 159.5 | 97.9 | 79.7 | 68.1 | 54.3 | 45.2 | 42.7 | 36.3 | 30.0 | 26.7 | 22.7 | CNS 10487 |
| | Upper | 349.0 | 267.3 | 208.5 | 132.1 | 104.3 | 84.0 | 66.9 | 52.8 | 49.2 | 40.8 | 34.1 | 29.6 | 26.3 | |
| Tensile Strength (kg/cm ²) | L | 15.0 | 13.5 | 12.0 | 8.0 | 7.0 | 6.0 | 4.8 | 4.0 | 3.2 | 2.8 | 2.2 | 1.8 | 1.5 | CNS 10487 |
| | W | 12.0 | 10.5 | 9.0 | 6.5 | 5.0 | 4.0 | 3.0 | 2.7 | 2.0 | 1.8 | 1.3 | 1.0 | 0.9 | |
| Elongation (%) | L | 270 | 250 | 230 | 210 | 200 | 190 | 180 | 175 | 170 | 160 | 150 | 140 | 130 | CNS 10487 |
| | W | 250 | 220 | 210 | 195 | 180 | 170 | 160 | 155 | 150 | 140 | 130 | 120 | 110 | |
| Tearing Strength (kg/cm) | L | 12.0 | 10.0 | 9.0 | 6.0 | 5.0 | 4.0 | 3.5 | 3.0 | 2.5 | 1.8 | 1.5 | 1.0 | 0.9 | JIS K6767 |
| | W | 9.0 | 8.0 | 7.0 | 5.0 | 4.0 | 3.0 | 2.5 | 2.2 | 2.0 | 1.5 | 1.1 | 0.8 | 0.7 | |
| Thermal Conductivity kcal/mh (°C) | | 0.035 | 0.034 | 0.034 | 0.033 | 0.033 | 0.032 | 0.031 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | 0.030 | CNS 10487 |
| 25% Compression Strength (kg/cm ²) | | 2.50 | 2.00 | 1.50 | 1.00 | 0.80 | 0.60 | 0.50 | 0.45 | 0.40 | 0.35 | 0.30 | 0.25 | 0.20 | CNS 10487 |
| Compression Set (%) | | 3.3 | 3.4 | 3.5 | 3.9 | 4.0 | 4.25 | 4.5 | 5.5 | 5.0 | 6.0 | 6.5 | 7.0 | 7.5 | CNS 10487 |
| Dimensional Change on heating (%) | L | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | CNS 10487 |
| | W | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | <±5% | |
| Water Absorption (g/cm ³) | | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | CNS 10487 |
| Hardness | | 75±4 | 70±4 | 62±3 | 49±3 | 42±3 | 35±3 | 32±3 | 30±3 | 28±2 | 24±2 | 22±2 | 20±2 | 18±2 | A-Type |