



ANT D.O.T

DATA SHEET

E.P.S SHEETING

Description

Expanded Polystyrene Sheeting (EPS) treated with Disodium Octaborate Tetrahydrate (Na₂B₈O₁₃.4H₂O).

EPS sheeting has no nutritive value to ants, termites or rodents, but is not a barrier to them. ANT D.O.T. treated EPS sheeting gives added protection from insect borer and termite damage.

| SHEET SPECIFICATIONS | | | | |
|----------------------|-------------|-----------------|---------------|-----------------|
| SHEET LENGTH | SHEET WIDTH | SHEET THICKNESS | SHEET COLOUR | TREATMENT D.O.T |
| 2500/5000mm | 1200mm | 20mm > 1200mm | White/stamped | Yes |

PHYSICAL PROPERTIES OF EXPANDED POLYSTYRENE SHEETING (AS 1366.3 – 1992)

National Polystyrene Systems (NPS) range of expanded polystyrene is manufactured to AS1366 Part 3 ~ 1992 and contains a flame retardant.

| Physical Property | Unit | Class | | | | | | Test method used to measure compliance |
|---|--------|-------|------|------|------|------|------|--|
| | | L | SL | S | M | H | VH | |
| Nominal Density | kg/cum | 11 | 13.5 | 16 | 19 | 24 | 28 | --- |
| Compressive strength at 10% deformation (min). | kPa | 50 | 70 | 85 | 105 | 135 | 165 | AS2498.3 |
| Cross breaking strength (min). | kPa | 95 | 135 | 165 | 200 | 260 | 320 | AS2498.4 |
| Rate of water vapour transmission (max) measured parallel to rise | ug/m2s | 710 | 630 | 580 | 520 | 460 | 400 | AS2498.5 |
| Dimensional stability (max) | % | 1 | 1 | 1 | 1 | 1 | 1 | AS2498.6 |
| Thermal resistance (min) at 25 degree C.(50mm Sample) | m2K/W | 1 | 1.13 | 1.17 | 1.20 | 1.25 | 1.28 | AS2464.5 or |

| | | | | | | | | |
|--|------|-------|-------|-------|-------|-------|------|----------|
| Thermal Conductivity (min) at 0 degree C. (50mm Sample) | W/mK | 0.039 | 0.037 | 0.036 | 0.035 | 0.034 | .032 | AS2464.6 |
| Flame propagation: | | | | | | | | |
| median flame duration | s | 2 | 2 | 2 | 2 | 2 | 2 | AS2122.1 |
| eight value (max) | s | 3 | 3 | 3 | 3 | 3 | 3 | |
| median volume retained | % | 15 | 18 | 22 | 30 | 40 | 50 | |
| eight value (max) | % | 12 | 15 | 19 | 27 | 37 | 47 | |

The NPS Range of treated E.P.S products is manufactured for use in a variety of insulation applications throughout the building industry.

Disodium octaborate tetrahydrate

From Wikipedia, the free encyclopedia

Disodium octaborate tetrahydrate is a white, odorless, powdered [chemical substance](#) that is not flammable, combustible, or explosive and has low acute oral and dermal toxicity. It is used as an [insecticide](#)^[1] and [fungicide](#), and is commonly sold as an insecticide as "Tim-Bor", or "termite prufe" brands in the [United States](#). It is also a flame-retardant^[2].

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