

Physical and Mechanical Properties of Plastic Lumber

| | Test | Test Method | Results |
|---|--|---|--|
| <i>Agat Laboratories</i> | Leachate | Regulation 558, Schedule 4 | Below Regulation Guidelines for: <ul style="list-style-type: none"> - Organophosphorus (OP) Pesticides - Phenoxy Acid Herbicides - Carbamates - Semi Volatile Organic Compounds (SVOC's) |
| <i>Underwriters' Laboratories of Canada</i> | Surface Burning Characteristics | CAN/ULC-S102-03 | Flame Spread = 145 |
| <i>Bodycote Materials Testing Canada</i> | Fungal Resistance Test | ASTM C1338-96 | No Fungal Growth was observed after 28 days of incubation. |
| | Flexure – 16" Span | ASTM D198-02, Section 4 | Maximum Load (lbf) = 1880.5 Load at 5% Strain (lbf) = 1782.0 |
| | Flexure – 24" Span | ASTM D198-05, Section 4 | Maximum Load (lbf) = 909.3 Load at 2.5% Strain (lbf) = 745.9 |
| | Nail Withdrawal | ASTM D6117-97, Section 10.1 | Maximum Load (lbf) = 147.4 (Conducted with 3½" 16d galvanized spiral driven 1¼" deep) |
| | Screw Withdrawal | ASTM D6117-97, Section 10.2 | Maximum Load (lbf) = 348.6 (Conducted using 8 x 2½" flat-head decking screws driven ½" deep) |
| | Creep & Recovery – 16" Span | CCMC Masterformat 06522 (Issue Date: 2005-05-07) | Meets Requirements |
| | Creep & Recovery – 24" Span | CCMC Masterformat 06522 (Issue Date 2005-05-07) | Meets Requirements |
| | Izod Impact | CCMC Masterformat 06522 (Issue Date: 2005-05-07); ASTM D256-05a, Method A | 2" x 6" Plank Construction = 137 J/m 4" x 4" Plank Construction = 253 J/m (Requirement >53.4 J/m) |
| | UV | ASTM G155-04 (2000 Hours) | No observed cracking, chipping or change in nominal dimensions and light discoloration. |
| | Freeze-Thaw | C672/C672M-03 (25 Cycles) | No scaling was observed. |
| | Chemical Resistance | ASTM D1308-02, Section 7.2 | No Visual Effect at 10 hours with: <ul style="list-style-type: none"> - Household Ammonia - Unleaded Gasoline (Regular) - Transmission Fluid (Valvoline Max Life) - Engine Oil (10W30) - Diesel Fuel - Hydraulic Fluid |