



Tech Data Sheet - Terrace Decking

| Model | Photo | Dimension |
|-------|--|-------------------------------|
| US49 |  | 138 x 25 mm (5.5 x 1.0 in) |
| US63 |  | 138 x 25 mm (5.5 x 1.0 in) |

| NO. | Property | Test Method | Test results | Remark |
|-----|--|-------------------------|---|------------|
| 1 | Abrasion resistance | ASTM D4060-10 | 33mg(1000cycles) | |
| 2 | Brinell hardness | EN15534 | 8.2N/mm ² | |
| 3 | Boiling test | EN15534 | Water absorption in weigh: 0.49% | |
| 4 | Bond Strength | EN319 | Average Bond Strength>2.3MPa No obvious abruption and damage after test | |
| 5 | Coefficient Linear Thermal Expansion | ASTM D696 | 35.6×10 ⁻⁶ mm/mm °C | |
| | | EN15534 | 34.0×10 ⁻⁶ K ⁻¹ | |
| 6 | Creep behaviour | EN15534 | △ S:4.39mm, △ Sr:4.35mm | Span:400mm |
| 7 | Content of pentachlorophenol | CE (EN14041(2004)) | 2.99ppm | |
| 8 | Creep Recovery | ASTM D7032 | Creep Recovery after 24h: 82.2% | |

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|-----|--------------------------------|---|--|--------------------------------------|
| 9 | Degree of chalking | EN15534 | Rating 0, no chalking. | |
| 10 | Electrostatic behaviour | EN1815 | Body-Voltage: 1.1kV This floor covering can be classified as antistatic | |
| 11 | Fire Resistance | BS476-7 | Class 2 | On request, talk to the manufacturer |
| | | AS1530.8.1.2007 | BAL29 | |
| | | EN13501-1, EN ISO9239-1, | Reaction to fire classification: Bfl-s1 | |
| | | EN ISO 9239-1 EN ISO11925-2 | classification: Bfl-s1 | |
| | | GB8624, GB11785, GB8626, GB20286 | Reaction to fire classification: GB8624B ₁ (B-s1, t1) | |
| | | ASTM E84 | Flame Spread Index(FSI): 85 Smoke Developed Index(SDI): 300 | |
| | AS/NZS 1530.3-1999 | Ignitability Index: 13 Range 0-20 Spread of Flame Index: 6 Range 0-10 Heat Evolved Index: 4 Range 0-10 Smoke Developed Index: 3 Range 0-10 | | |
| 12 | Falling mass impact resistance | EN15534 | Max Crack length(mm): No crack. Max Residual Indentation(mm): 0.14 | |
| 13 | Formaldehyde Content | EN717-1 | Non Dectectable | |
| | | ASTM D6007-14 | Non Dectectable | |
| 14 | Flexural properties | EN15534 | Bending Strength:36.3Mpa, Modulus of elasicity:3.72Gpa, Maximum load:4286N, Deflection at 500N:1.23mm | Span:400mm |
| | | ASTM D6109 | MOR:26.3MPa, MOE:2620MPa | Span:368mm |
| 15 | Heavy Metal Content | EPA3051 | Sb:ND, As:ND, Se:ND, Sn:ND | |
| 16 | Heat reversion | EN15534 EN479 | Test temperature: 100 °C :0.20% | |
| 17 | Heat build-up | EN15534 | △ T=-3.1 °C | |
| 18 | Impact Resistance | ASTM D4226 | MFE>396J | |
| 19 | Lead Content Test | EUNo.628/2015 | Non Dectectable | |
| 20 | Mould resistance | ASTM G21 | Rating 0 | |
| 21 | Moisture Content | EN15534 EN322 | 0.83% | |

| NO. | Property | Test Method | Test results | Remark |
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| 22 | Moisture resistance under cyclic test conditions | EN15534 | Original MOR: 36.3Mpa After exposure, MOR: 32.1Mpa, Decrease: 11.7%. | |
| 23 | Neutral salt spray test | ASTM B117-2011 | After 200 hours tests, there was no visible change appeared on the surface: Front surface: $\Delta E^*=1.22$, Grey Scale:4-5 Back surface: $\Delta E^*=1.06$, Grey Scale:4-5 | |
| | | EN15534 ISO9227 | $\Delta E^*=1.42$, Grey Sale=4 (Exposure 96h) | |
| 24 | Pb, Cd, Hg, Cr ⁶⁺ | RoHs-IEC62321 | Pb:ND, Cd:ND, Hg:ND, Cr ⁶⁺ :ND | |
| 25 | Resistance to scratch test | ISO4586-2 | Rate 2 | |
| 26 | Resistance to indentation | EN15534 | Apply 2000N load Brinell hardness: 72Mpa, Rate of elastic recovery: 65% | |
| 27 | Resistance to artificial weathering | EN15534 ISO4892-2 | After 2000h exposure $\Delta E^*=1.09$, Grey Sale=4-5 | |
| 28 | Rockwell Hardness | ASTM D785 | 78.7R | |
| 29 | Slip Resistance | AS/NZS 4586 | 1. Wet Pendulum Testing: Longitudinal:30; Horizontal:42 2. Oil Ramp Testing: Longitudinal:Rating:R11; Horizontal:Rating:R11 | |
| | | AS4586:2013 | P2 | |
| | | CENTS12633(2014) CENTS16165(2012) | Pendulum Testing: Dry condition: PTV46 Wet condition: PTV34 | |
| | | EN15534-1, EN15534-4 | Pendulum test:Longitudinal:44; Horizontal:56 Indination plan test:Angle:25.0°, Rating:Class C | |
| | | DIN51130 | Oil-wet ramp test: Angle:19.7° Rating:R11 | |
| | | DIN51097 | Wet-load ramp test: Front View:Angle:31.2° Rating:C Back View:Angle:29.0° Rating:C | |
| | | EN15534 CEN/TS15676 | Pendulum test:Longitudinal:59; Horizontal:69 Indination plan test:Angle:38.2°, Rating:Class C | |

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| 30 | Swelling and water absorption (24hours immersion) | EN15534 | ① Swelling: 0.06% in thickness, 0.03% in width, 0.03% in length. ② Water absorption: 0.49% | |
| 31 | Swelling and water absorption (28days immersion) | EN15534 | ① Swelling: 0.67% in thickness, 0.04% in width, 0.07% in length. ② Water absorption: 0.27% | |
| 32 | SRI Testing | ASTM C1549, ASTM C1371, ASTM E1980 | 19 | |
| 33 | Surface Bond quality | EN319 | >2.08MPa | |
| 34 | Thermal Resistance | ASTM C518-2010 | Thermal conductivity: 0.1589W/(m·k) Thermal resistance: 0.0830(m ² ·K)/W | |
| 35 | Thermal conductivity | CE (EN14041(2004)) | 0.19738W/m·K | |
| 36 | UV Weathering test | ASTM G154 | After 3000 hours test, Grey Scale3, $\Delta E^*=3.56$ | |
| 37 | Uplift Resistance | ICC-ES AC174 ASTM E330 | Average ultimate load ≥ 430 psf | |
| 38 | VOC&TVOC | ASTM D5116-11 | Non Detectable | |
| 39 | Water absorption | ASTM D1037 | Water absorption(24h): 0.12% | |