

# All Play Shock Pad

**All Play Shock Pad** is produced from high-grade expanded 1"-thick polypropylene. Large interlocking panels speed up installation with no cutting, gluing or taping required. This non-toxic and highly durable material excels in shock absorption and effective drainage.



## MATERIAL

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Material Type                      | Expanded Polypropylene            |
| Product Format                     | Interlocking panel                |
| Product Size, nominal net coverage | 24.15 sq ft per panel (2.24 sq m) |
| Product Thickness, nominal         | 1.00 in (25 mm)                   |
| Product Length, nominal            | 73.5 in (1.867 m)                 |
| Product Width, nominal             | 49.0 in (1.245 m)                 |
| Product Weight, nominal            | 5.2 lbs per panel (2.36 kg)       |

## PERFORMANCE

|   | Typical Value - Nominal Density | Specification                             |
|---|---------------------------------|---|
| Tensile Strength  | 92 psi                          | >80 psi (ASTM D3574-08 Test E)            |
| Tensile Elongation  | 41%                             | >30% (ASTM D3574-08 Test E)               |
| Coefficient of Linear Thermal Expansion per 1°C change        | 0.083 mm/m                      | 0.083 mm/m (ASTM D696)                    |
| Compression Set<br>35 psi for 30 minutes - Set after 24 hours | 7.2%                            | <10% (Brock Test Method)                  |
| Thermal Conductivity (Lambda Value)                           | 0.0377 W/mK                     | Information Only (EN 12667:2001/ISO 7345) |
| Thermal Resistance  | 0.64 Km <sup>2</sup> /W         | Information Only (EN 12667:2001/ISO 7345) |
| Water Absorption  | ~1%                             | £ 1% (DIN 534 28)                         |
| Water Permeability  | 720 in/hr                       | >500 in/hr (ASTM 1551, Suffix-DIN 18-035) |

**SAFETY**

**Typical Value -  
Nominal Density**

**Specification**

|   |                         |  |
|---|-------------------------|--|
| <b>Head Injury Criterion - Critical Fall Height</b> | 1.2 m                   | 1.2 m <i>(ASTM F3146-18, Procedure A)</i>  |
| <b>Gmax</b>   | 79g                     | <90g <i>(ASTM F355-16 Missile A)</i>   |
| <b>Shock Absorption</b>                             | 70%                     | >60% <i>(ASTM F3189-17)</i>  |
| <b>Resistance to Chemicals</b>                      | 1 / 2                   | £ 2 <i>(JSP Method based on ASTM F925)</i>                                       |
| <b>Resistance to Acid &amp; Alkaline Liquids</b>    |                         |  |
| % tensile strength loss - 100yr model               | 0% after 12 days        | 0% after 12 days<br><i>(EN 14030:2010, ISO 12960:1998)</i>                       |
| <b>Resistance to Oxidation (Accelerated Aging)</b>  |                         |  |
| % tensile strength loss - 100yr model               | 6% after 56 days 110°C  | 6% after 56 days 110°C<br><i>(EN ISO 13438:2004)</i>                             |
| <b>Microbiological Analysis</b>                     |                         |  |
| bacteria resistance                                 | No growth               | No growth <i>(ASTM G22-76)</i>   |
| fungi resistance                                    | No growth               | No growth <i>(ASTM G21-96)</i>   |
| <b>Environmental Standards Testing</b>              |                         |  |
| Cradle to Cradle                                    | Certified               | Certified <i>(Cradle to Cradle Products Innovation Institute)</i>                |
| Heavy Metals  | Compliant to EPA        | Compliant  |
| VOC's   | human health standards, | <i>EPA 6010B, 7470A, 7471A</i>   |
| SVOC's  | surfacewater quality,   | <i>EPA 8260B</i>   |
|   | groundwater quality     | <i>EPA 8270C</i>   |
| California Title 22                                 | Compliant               | Compliant<br><i>(California Code of Regulations, Title 22, Div 4.5, Chap 11)</i> |
| California Proposition 65                           | Certified               | Certified<br><i>(California Proposition 6/614)</i>                               |