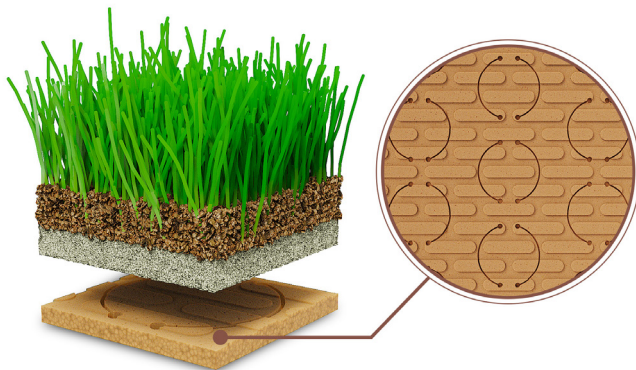


Dynamic 702

Material Data Sheet

Product Description & Properties



Standard dimensions

Thickness (mm)	10 (wave)	12 (wave)
Width x Length (m)	2x66	2x56

Note: custom dimension available upon request

Physical and mechanical properties

Density (kg/m ³) ⁽¹⁾	50
Tensile strenght MD and TD (kPa) ⁽²⁾	552 and 463
Elongation MD and TD (%) ⁽²⁾	146 and 140
Compression 50% (KPa) ⁽³⁾	130

(1) ISO 845

(2) ISO 1798

(3) ISO 844

Amorim Dynamic 702 is a high quality shockpad composed of a combination of cork and closed cell polyethylene for optimal performance in artificial turf systems.

The foam has an engineered designed punching smile design that provides it with excellent drainage.

Benefits

Sports function

- Optimized shock absorption and vertical deformation
- A reliable base for sports performance and players benefit
- High level of elasticity for additional cushioning comfort

Construction

- Compliant with drainage demands
- Designed to perform with most major manufactured artificial turf systems

Durability

- Constant performance for the entire service life
- Reusable for more than one installation
- Constant properties, even in areas of high-frequency use
- Weatherproof and long-lasting, and will not rot, harden or become brittle over time

Sustainability

- Cork is a natural CO₂ retainer, lowering the carbon footprint of the PE in the formulation
- Recyclable
- Even when a turf system is in need of replacement, the existing Amorim Dynamic 702 can be reused under the new system.

Technical Performance

Compliant with EN 15330-4

- Resistance to dynamic fatigue**
 - Shock Absorption pre-loading = 38.8%
 - Shock Absorption post-loading = 34.9%
 - Thickness pre-loading = 11.9mm
 - Thickness post loading = 10.8mm

- Dimensional stability**
 - Maximum amount of deviation = 2mm
 - Profile = Concave

- Thermal conductivity**
 - 0.0456 W/m.K

- Toxicology**
 - Compliant with EN 15330-4

- Resistance to permanent deformation after short-term loading**
 - Residual indentation after 1 hour = 0.17mm (max requirement 1mm)

Resistance to Permanent Deformation after Static Loading

- AAA values**

• Dry 23°C – w/o plate:	35% & 8.0mm
• Dry 23°C – w plate:	52% & 7.2mm
• Wet 23°C – w plate:	50% & 6.9mm
• Aged – w plate:	54% & 7.3mm
• -5°C – w plate:	51% & 6.7mm
• +5°C – w plate:	52% & 7.0mm
• 40°C – w plate:	51% & 7.2mm
• Classification:	Class B

- Permeability**

• Vertical Water infiltration (mm/h)*	14 400
• Horizontal drainage (l/s/m)*	>=0,1

*EN 12616 (2023) and EN 15330-4

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