



MS³ SPORTS FLOORING SPECIFICATIONS

MATERIALS

Description: Imperial 12" x 12" x 1/2" high impact polypropylene copolymer suspended modules. FlexGrip stability system designed to provide ultra high support structure. Special design combined with thick sidewalls for highest torsional rigidity and maximum strength to weight ratio. Tiles shall have positive locking system with mechanical FlexGrip™ feature. Tiles shall also have 10 year limited warranty as manufactured by T & C Sports, Inc.

PHYSICAL PROPERTIES

Material Test Results

- Rockwell hardness (ASTM D 785): 70
- Heat deflection @66 psi (ASTM D 648): 185
- Melting point isotactic (ASTM D 2117): 325
- Auto-ignition temperature (ASTM D 1929): 1050° F
- Vicat softening point (ASTM D 1525): 262° F
- Low temperature brittleness (ASTM D 2137): -22° F
- Flex-modulus (ASTM D 790): 115,000 psi., (795 Mpa)
- E-Modulus (ASTM D 5418) 120,000 psi., (827 Mpa)
- Tensile Yield Strength (ASTM D 638): 3,000 psi
- Notched Izod (ASTM D 256) 12(ftlbs/in) @ 23° C
- Elongation at Yield (ASTM D 638) 20%
- Co-efficient of Linear Thermal Expansion ((ASTM D 696, E-83-1): 58.3 x 10⁻⁶ (in / in) / ° F

Product Results

- Flame Spread Index (ASTM E84): 70
- Smoke Generation (ASTM E 662): 325
- Radiant Panel (ASTM E 648): .45 Watts/cm²
- Friction Test (ASTM C 1028) dry.60 wet .42
- Compression vs. Crush (ASTM D 3998): no break
- Noise reduction coefficient (ASTM C 423) 5-10%
- Rolling Load (DIN 18032) PASS
- R-Value <1.0
- Flatness 0.0 mm
- Load bearing Capacity: > 25,000 pounds per tile

SANITARY INFORMATION

Resistance to the following

Fungi (in compliance with ASTM G-21 and MIL standard 810-D procedure 508.3).

All basic organisms (ATCC #6205-11797) have zero growth.

Bacteria and mildew

Gram-positive bacterial *Staphylococcus Aureus*

Gram-negative *Klebsiella Pneumoniae*

Pink-staining organism

STV Reticulum

Surface fungi growth prior to and following leaching



MS3 Multi Sport Surfaces
56 Mead Street
PO Box 1066
Leominster, MA 01453
(978) 660-1253
info@MS3surface.com

