Temperatures of FieldTurf synthetic turf with GreenPlay (corkonut infill)

July – September 2016

Rockwood School District
Lafayette High School, Wildwood, MO
Marquette High School, Chesterfield, MO

SYNTHETIC TURF
Skin Injury References

EXPOSED SKIN/BODY EFFECTS
*MSHSAA Guidelines
**Universities like BYU: athletic fields unusable above 120° F.

105 °F* (heat index)
cancel sport
115 °F
burns, heat stroke

122 °F**
<10 MINUTES
injure/burn
131 °F
2nd degree burn

>120 °F scalds

140 °F
3 SECONDS
2nd degree burn
5 SECONDS
3rd degree burn

162 °F
human tissue destroyed on contact, may cause nerve damage

Sources:


https://www.nist.gov/3Cfront%3E/fire-dynamics


https://www.google.com/url?q=https://www.wellesley.edu/A_SpragueResources/F/Synthetic%2520Surfaces%2520Heat%2520Study.pdf&sa=U&ved=0ahUKEwiGn20q4bPAnXHGz4KHVATCd4QFggMAE&url=http%3A%2F%2Fwellesley.edu%2Fpages%2FWellesleyMA_SpragueResources%2FSynthetic%2520Surfaces%2520Heat%2520Study.doc&usg=AFQjCNGUko4eAccdC79J83YAs-0MFP_1Jw&cad=rja


http://emergencynurse-community.blogspot.com/2009/05/burns-thermal.html
Lafayette High School (No pictures available)
7/2016
Kids around 6 years old playing soccer

Air Temp = 84 °F
Grass = 98 °F
FT w/ GP = 125 °F
Asphalt = 135 °F

Lafayette High School
7/2016

Grass = 106 °F
Air Temp = 91 °F
Asphalt = 134 °F

FieldTurf with GreenPlay (corknut) = 128 °F
Air Temp = 93 °F
Asphalt = 141 °F

FieldTurf with GreenPlay (corknut) = 137 °F

NOTE: Grass fields are in poor shape, maintained by school staff only. Licensed agronomist notes that grass field temperatures would be even lower if grass was in good condition.
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