Liberty Ground Protection Mat
Product Specifications
Sku # Liberty

Tile Size:  7 ft-11 in x 3 ft-11 in x 1/2 inch thick, 29.06 square feet per tile
Tile Weight:  77 lb. per tile
Material:  100% recycled Low Density Polyethylene (LDPE)

Technical Product Information
Mechanical Properties:
- Tensile strength: 23-26 MPa
- Flexural strength: 25 - 28 MPa
- Flexural modulus: 1936 - 1967 MPa
- Charpy Notched Impact Strength: 5 - 6 kJ/m²
- Poisson's ratio (theoretical): 0.35 - 0.38

Compression testing:
- (max value) Tons: 250

General Properties:
- Density: 940 - 965 kg/m³
- Shrinkage: 2 - 4 %
- Water absorption: 0.01 %
- Thermal expansion: e⁻⁶/K: 110 - 130
- Thermal conductivity: W/m.K: 0.46 - 0.52
- Specific heat: J/kg.K: 1800 - 2700
- Melting temperature: F: 226 – 273
- Glass temperature: F: -230 - -230
- Service temperature: F: -86 - +185
- Resistivity: Ohm.mm²/m: 5e+17 – 1e+21
- Breakdown potential: kV/mm: 17.1 – 19.7
- Dielectric loss factor: 0.0005 – 0.0008
- Friction coefficient: 0.25 – 0.30
- Refraction index: 1.52 – 1.53

Health and Safety Information
Critical hazards to man and environment: None
Environment: The disposal of the material presents no danger regarding toxicological or ecological considerations. Due to low water solubility, bio-availability unlikely.
Solubility in water: Insoluble
Regulatory: Not classified as hazardous under transport regulations.
Melting point: Crystalline Melt Temperature 226 - 273 °F
Ignition temperature: > 680 °F
Thermal decomposition: > 734 °F
Stability and reactivity: No possibility of degradation under normal circumstances. Degradation will only occur above the decomposition temperature.
Toxicology: Not harmful to health under normal conditions.

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