



Product Data Sheet

EnviroFluff®
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rev 092922

Product Description:

EnviroFluff® is a thermoplastic foam which is produced in sheet form then granulated into shredded particles ranging in size from .05 mm to 10 mm. EnviroFluff® has been designed to have a high resistance to environmental degradation and most chemicals. When mixed with a polyurethane binder it produces a cushioned layer for use in playground safety surfaces and passes ASTM F1292-18 Impact Attenuations without the harmful effects to children and the environment as do the current SBR cushions used today. EnviroFluff®, with its patented design, can also be used as the first and only safety surface in water play due to its high resistance to chlorinated water.

Physical Properties:

1. Elongation: 400% - 600%
2. Tensile Strength – 700-2500 psi
3. Hardness Shore A – 30 85 Shore A
4. Bond Strength to Urethane – 425 psi
5. Flammability – Self Extinguishing
6. Impact Resistance – Passes all impact attenuations.

Mechanical Properties:

1. Compression Set – Excellent
2. Rebound Rating – Good to excellent
3. Flexible, Crack Resistance - Good
4. Shrinkage Resistance – Excellent
5. Abrasion Resistance - Good
6. Tear Resistance – Good to excellent
7. Impact Resistance – Excellent
8. Flame Resistance – Poor

Chemical Resistance:

1. Acetone – Fair to good
2. Animal Fats – Good
3. Chlorine – Excellent
4. Fuel Oil – Fair to good
5. Gasoline – Fair
6. Mineral Spirits – Good
7. Naphtha – Good

Technical Properties:

1. Particle size - .05 mm – 10 mm
2. Composition – Thermoplastic Foam
3. Mixing Ratio by Volume:
 - Dry Play: 22 lbs. to (2) Two Quarts Aromatic Urethane
 - Water Play: 22 lbs. to 1 gallon of Flecks Aliphatic Binder
4. Spread Rate – 1 lb. at 1 sq. ft. per 1 inch
5. Toxicity – Non-toxic; no harmful ingredients

Environmental Resistance:

1. Recommended Shelf Life – Over 10 years
2. Weather Resistance – Good to excellent
3. U.V. Resistance/Light Stability – Good
4. Ozone Resistance – Good
5. Oxidization Resistance – Good to excellent
6. Water Resistance – Good to excellent
7. Radiation Resistance - Good

Chemical Resistance:

8. Salt Water – Excellent
9. Sodium Hydroxide – Excellent
10. Vegetable Oils – Good to excellent
11. Nitric Acid – Not Recommended
12. Sulfuric Acid – Not Recommended
13. Hydrochloride Acid – Not Recommended
14. Solvent Resistance – Fair to Good