



**American Recycled  
Plastic Incorporated**  
*Outdoor Furniture & Lumber Products*  
www.itsrecycled.com

# Recycled Plastic Sheeting Technical Data

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## Electrical Properties

Our recycled plastic sheeting is **NOT** a conductor of electricity.

D.C. Resistivity, ohm-cm	>10 <sup>15</sup>
Dielectric constant, 60 cps	2.3 - 2.35
Dielectric constant, 10 <sup>6</sup> cps	2.3 - 2.35
Dissipation factor, 60 cps	<0.0005
Dissipation factor, 10 <sup>6</sup> cps	<0.0005

## Fasteners & Tools

Our sheeting can be sawed, nailed, screwed together, stapled, or stacked the same as traditional wood sheeting. It will never rot, decay, rust, corrode, split, and has no splinters or splinters like wood. Nail holding characteristics are similar to wood. It is recommended that wood screws (preferably stainless steel) be used with washers, in almost all applications. Common hand tools can be easily used, such as variable speed drills, saws, and routers.


## Environmentally Friendly

Our sheeting is made from recycled plastic milk & water jugs, and the manufacturing process used to make the plastic sheets creates no harmful air, water, or any solid waste pollutants. All scrap generated, is recycled via a reground process, and can be reused time and time again with no loss in integrity of the original quality.

## Combustion

Sheeting will burn when exposed to an open flame (oil based product), but tends to self extinguish when flame is removed. It is a high density polyethylene and paraffin based material. The gas produced from burning is non-toxic.

BTU's / lb	19,900
Odor of fumes	Paraffin
Melt temperature	225 degrees F
Burning rate	Slow

  
Your plastic debris will save a tree!

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## Buoyancy, Density, & Mechanical Properties

Our sheeting has a density of .79, and will float on water. The product will not absorb water and will maintain its buoyancy over time. It has greater flexibility (bending qualities) than wood. It is more impact resistant than traditional wood sheeting, but does require more support when installed in a load carrying application. Supports (depending on sheet thickness) should be placed a minimum of every 12 inches on center. For heavier load bearing applications or dead loads, additional support is needed and should be calculated by an Engineer.

Density	(LB/in <sup>3</sup> )	.0275
Flexural Modulus	(PSI)	1.6 x 10 <sup>5</sup>
Tensile Yield	(PSI)	3510
Compressive Yield	(PSI)	3205
Izod Impact	(Ft - LB/in <sup>2</sup> )	2.8
Thermal Expansion	(In/In °F)	70 x 10 <sup>-6</sup>
Hardness	64/65	Shore D
Average Weight	(12 GR/cu in)	

## Thermal Expansion

Our sheeting will expand and contract approximately 1/8 of an inch/per 40 degree temperature variance, for every 10 ft. in length of material. This should be incorporated in all design considerations. Expansion occurs lengthwise only and the width is not effected. Test service temperature range from -20 degrees F to 110 degrees F.

Thermal expansion 70x10<sup>-6</sup> (in/in ° F)  
Test factored at a maximum service temperature of 100° F

## Chemical Resistance

High density polyethylene has a very good resistance to most acids and chemicals as its virtually waterproof. For this reason, our sheeting is not affected by exposure to most liquids.



Your plastic debris will save a tree!