

Eco-friendly Plastics Solutions

**Decade Bio™ Safety Glasses**

Scientists found a way to enhance plastics to retain their beneficial characteristics, but prevent them from hanging around in landfills for hundreds or thousands of years.

The process introduces a tiny amount of material during manufacturing - material that attracts hungry microbes to plastic surfaces.

When the plastic item is buried in a landfill, bacteria sense the food, then gather and begin to break down the structure of the plastic.

In a small fraction of the amount of time it would take non-treated plastics to simply degrade, treated products should biodegrade into stable humus and methane (in anaerobic) or carbon dioxide (in aerobic conditions).

In ongoing testing, our safety glasses were found to biodegrade an average of 15.1% in the first 210 days under conditions simulating a biologically-active landfill,\* using the ASTM D5511 test.\*\* Results from May 10, 2011

\* Actual biodegradation rates vary in landfills according to moisture level. Present tests at ~45% solids content are representative of wetter landfills, such as in the Pacific northwest & southeastern US.  
\*\*ASTM D5511 specifies "This test method may also resemble some conditions in biologically active landfills where the gas generated is recovered and biogas production is even actively promoted."



70111

**Decade SS**  
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70102

**Decade Sosa**  
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70100

Eco-friendly Plastics Solutions

**Decade Bio™  
Sosa Safety glasses**

The entire unit is treated to promote and enhance biodegradation of the product.

Comfortable, lightweight frames with durable hinges are available with clear or shaded lenses. Lens are treated with a scratch-resistant coating. Traditional fully-framed style comes packaged in a biodegradable pouch made of potato starch.

Constructed of bio-enhanced polycarbonate plastic, new Decade Bio™ safety glasses meet the updated ANSI Z87.1-2010 Impact Rated eyewear standard.

The glasses provide 99.9% protection from UVA and UVB radiation and have a scratch-resistant coating.

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Frame Color	Lens Color	Part Number
Dark Gray	Dark Gray	70102
Clear	Clear	70100



Eco-friendly Plastics Solutions

**Decade Bio™  
SS Safety Glasses**

Frame and lenses are treated to promote and enhance the process of biodegradation in a landfill.

Constructed of bio-enhanced polycarbonate plastic, new Decade Bio™ SS safety glasses meet the updated ANSI Z87.1-2010 Impact Rated eyewear standard.

Temple length adjusts easily with sliding gripper teeth. Features softer temple ends and flexible nose pads.

Scratch-resistant coating. Flattering semi-rimless sport style comes packaged in a biodegradable pouch made of potato starch.

The glasses provide 99.9% protection from UVA and UVB radiation and have a scratch-resistant coating.

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Results from May 10, 2011

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Frame Color	Lens Color	Part Number
Black Sport	Clear	70111
Black Sport	Gray	70112