

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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Part # 70111 & 70112



70112



70102

**Decade Sosa**

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Part # 70100 & 70102



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.

In ongoing lab 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

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