

# Teslin<sup>®</sup> Substrate and the Environment

While *Teslin* substrate is a recyclable plastic material and is not considered biodegradable; it contributes to environmental stewardship by enabling our customers to produce durable products which conserve resources. Additionally, *Teslin* grades are manufactured under strict corporate guidelines for environmental compliance and waste minimization.

## Teslin substrate and the environmental ecosystem

*Teslin* substrate does not contain any cellulose-based materials and does not contribute to forest harvesting. It is non-toxic and does not contain any ozone-depleting constituents.

## Properly disposing of *Teslin* substrate










*Teslin* substrate can be safely disposed of in a landfill and will not leach into ground water. It can also be incinerated in an atmosphere of excess oxygen. When burned, *Teslin* substrate yields water, CO<sub>2</sub>, energy, and a clean ash due to its silica filler.

## Recycling *Teslin* substrate

*Teslin* substrate is a highly filled polyolefin blend that is currently being recycled into general use bulk plastics such as plastic lumber, park benches, and industrial signs. It is classified as a 7 according to the voluntary container-coding system (7 = other resins or multi-resin polymers). Due to high filler loading and high molecular weight polymer matrix, *Teslin* substrate requires a high intensity mixer such as a twin screw extruder for recycling with HDPE

## *Teslin* substrate is free of heavy metals

PPG certifies that there is no lead, cadmium, mercury or hexavalent chromium added intentionally to *Teslin* substrate. PPG further certifies that the incidental total concentration of the above metals does not exceed 100 ppm, putting *Teslin* sheet in full compliance with the 1994 standards of the Coalition of Northeastern Governors' Model Toxic legislation (CONEG). *Teslin* substrate also complies with the current ASTM F963-86 standard, Consumer Safety Specification on Toy Safety. PPG certifies that *Teslin* substrate has no detectable quantities of either antimony or arsenic. Other metal analyses are available on request.

-  Non-toxic
-  No ozone-depleting constituents
-  65% by weight inorganic filler (silica – derived from sand)
-  No cellulose-based material content – does not contribute to forest harvesting
-  Currently recycled into general use bulk plastics such as plastic lumber, park benches, and industrial signs (a class 7 material)
-  Safely disposed of in a landfill – will not leach into ground water
-  Incinerates in an atmosphere of excess oxygen to yield only water, CO<sub>2</sub>, energy, and a clean ash (from silica filler)
-  Fully compliant with 1994 standards of the Coalition of Northeastern Governors' Model Toxic legislation (CONEG) relative to heavy metal content
-  Fully compliant with current ASTM F963-86 standard, Consumer Safety Specification on Toy Safety – no detectable quantities of either antimony or arsenic