



Maximize the value of your painted TPO waste!

"Bringing Resource Recovery Full Circle"

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Automotive TPO Recovery Process

Geo-Tech is an environmentally friendly company specializing in recycling coated plastics used in automotive and consumer applications. Backed by the R&D expertise of METSS Corporation, Geo-Tech has implemented the most effective process available in the marketplace for removing paints and other coatings from plastics so they can be reclaimed and re-used in high-end applications. A key factor to the success of the Geo-Tech process is the ability to recover valuable plastic substrate materials without the use of solvents and chemicals that diminish the properties of the base polymer or degrade the surface appearance of parts manufactured from the reclaimed materials.

Geo-Tech's process is currently being used with great success to reclaim painted TPO materials for re-use in automotive applications such as exterior fascia, body side moldings and wheel flares. Geo-Tech's process returns the full value of these materials to the manufacturer for re-use in high-end exterior automotive applications with significant cost reduction potential.

The Process

- Geo-Tech accepts painted TPO scrap from the manufacturer
- The Geo-Tech process removes paint from TPO regrind
- De-coated TPO regrind is suitable for use in mold-in-color black applications
- An additional melt-filtration step can be applied to produce certified TPO pellet for painted Class A applications
- Geo-Tech can supply de-coated TPO in regrind or pellet form to meet specifications
- Geo-Tech provides toll processing services to return 100% of the value of the de-coated product to the processor

The Result

- Minimum impact on physical properties of substrate polymers
- Solvent-less process eliminates surface appearance issues
- Geo-Tech has the only recycling process that can recover 100% of the value from painted TPO
- Reclaimed TPO can be used in defect-free parts production without discoloration problems in painted parts
- Geo-Tech's process works on one coat and base-coat/clear coat paint systems
- Geo-Tech's process works on automotive grade TPO materials

The Impact

- Processors can maintain material and part performance while reducing overall production costs
- Processors can use more recycled content in their products - *Class A painted parts are currently being manufactured using 100% of Geo-Tech processed materials*
- Processors can reduce materials costs by replacing virgin TPO with reclaim
- Processors can reduce cost of storing or land filling painted TPO scrap
- Processors can use Geo-Tech products to meet recycled content objectives in high-end applications