

ECO-FLEX™ RTPV

**Consumer Goods
Presentation**

Recycling with ECO-FLEX™ RTPV Thermoplastic Elastomer

Consumer Goods Market

An Unusual Way to Cut Costs

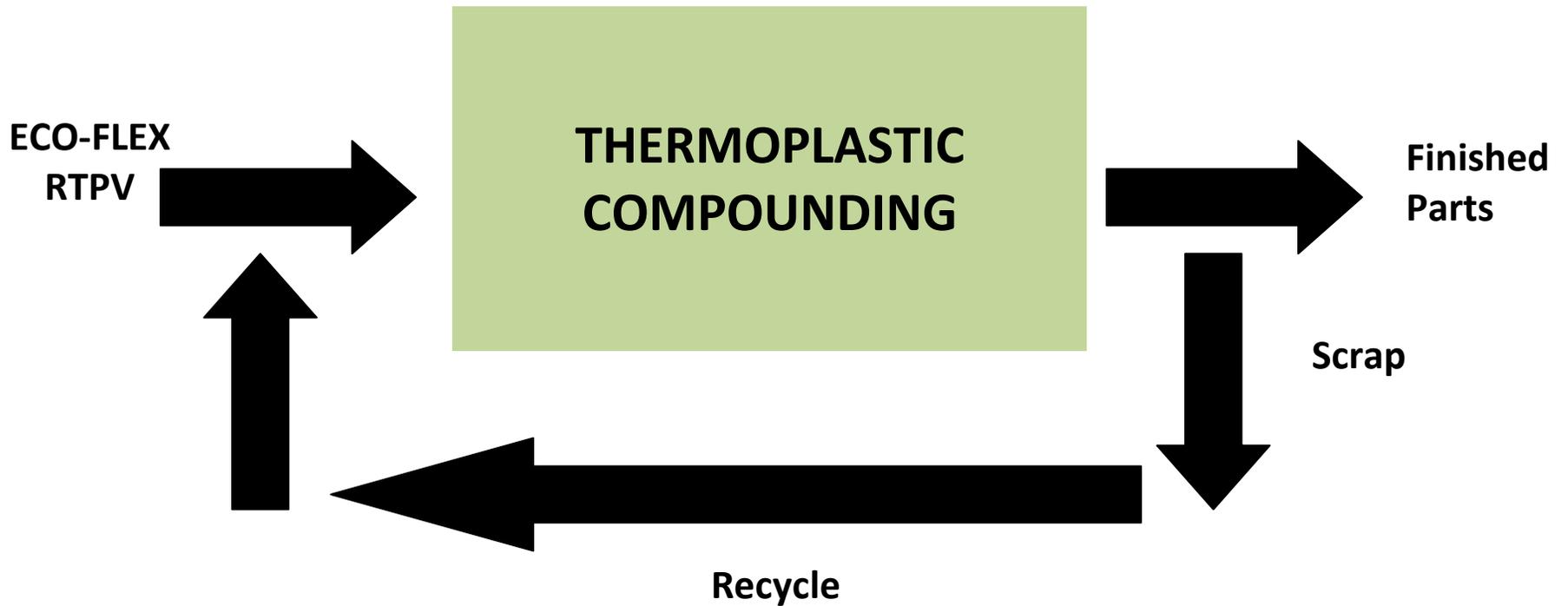
SYNESIS

Benefits

- **No Compounding Required**
- **Rubber Performance**
- **Lower Finished Part Cost**
 - **Faster Cycles**
 - **Recyclability of Scrap**
 - **Lower Specific Gravity**
- **Design Flexibility**
- **Use of Post-Consumer Recycled Rubber**
- **Easily recyclable**
- **Minority Content**

SYNESIS

No Compounding Required



SYNESIS

Rubber Performance Properties

- **COLOR: BLACK**
- **SHORE HARDNESS: 45A -40D**
- **GOOD MECHANICAL PROPERTIES**
- **GOOD CHEMICAL RESISTANCE**
- **EXCELLENT UV AND OZONE RESISTANCE**

SYNESIS

Lower Finished Part Cost

- Faster Cycles
- Recyclability of Scrap
- Lower Specific Gravity

Cost/Performance Comparison 12" Trash Can Wheel

Item	Virgin SBR	ECO-FLEX
Hardness, Shore A	80	80
Wear Test, 50k Cycles	Pass	Pass
Cold Drop Test, -20 °C	Pass	Pass
Specific Gravity	1.4	1.00
Tread Weight, g	985	240
Cycle Time, Sec	360	40
Scrap Rate, %	15	<1
Finish Wheel Cost, \$ per Wheel	2.87	1.52

SYNESIS

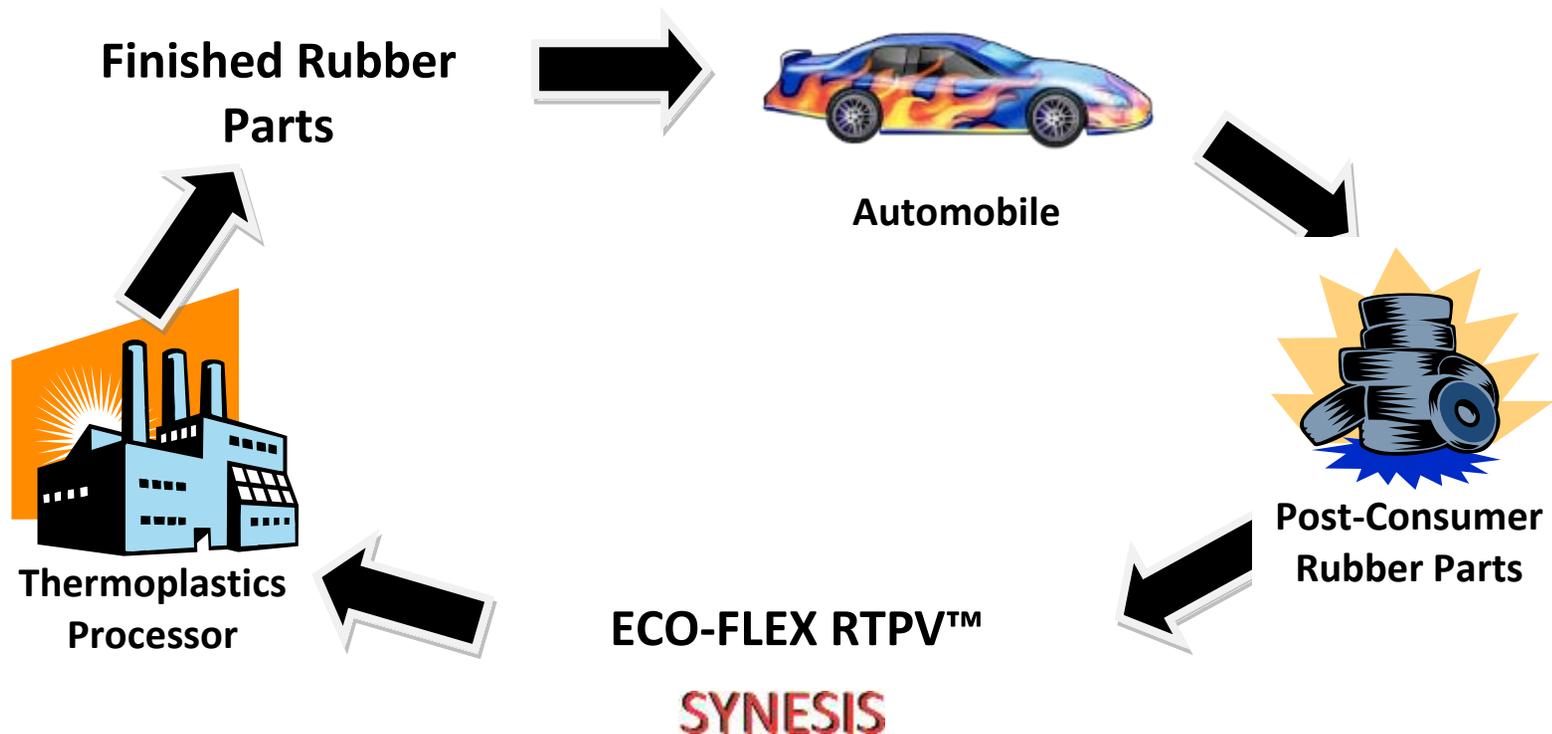
Use of Post-Consumer Recycled Rubber



Environmental Benefits Recycling vs. Landfill/Stockpiling



- Prolongs Life of Landfills by Reducing Solid Waste
- Protects the Environment from the Fire and Health Hazards of Scrap Rubber Stockpiles



ECO-FLEX RTPV TARGET APPLICATIONS

Consumer Goods

- **Wheels (Casters/Lawn Mower/Dryer)**
- **Grips**
- **Floor Tiles**
- **Pipe couplings, Toilet Flapper Valves/ Toilet Rings/Plungers**
- **Bumpers, Gaskets, Mounts, Feet**

SYNESIS

ECO-FLEX™ RTPV TARGET CONSUMER GOODS APPLICATIONS



Lawn Mower Tires



Boat Lift Roller



Tool Hand Grips



Flooring



Appliance Feet



Flexible Couplings

SYNESIS