OVERVIEW

• Who is KW Plastics
• End Market Demand
• Challenges
• Regional Perspective
• Conclusion
World’s largest plastics recycler
• HDPE and PP postconsumer resin supplier
• 650,000,000 lbs extrusion capacity
• 150,000,000 lbs total silo capacity

Private company, HQ in Troy, Alabama
• KW Plastics-Troy, KW Plastics-California, KW Recycling Division
• Affiliate companies-Wiley Sanders Trucklines, KW Container (5 locations)
• 35 yrs. experience in plastics recycling + injection molding with PCR
KW PLASTICS

Who, What, Where & How

SUPPLY CHAIN

- CONSUMER / RECYCLER
- MUNICIPALITIES
- MRFS
- PRFS

- RECLAIMERS
- CONVERTERS

- CONVERTERS

- BRAND OWNERS
- RETAILERS

- CONSUMER / BUYER

| SUPPLY | DEMAND |
### HDPE (#2) Bales
- Natural blow mold grade | postconsumer
- Pigmented / Mixed Color blow mold grade | postconsumer
- Bulky RIGIDS injection grade | postconsumer + post industrial

### PP (#5) Bales
- Tubs & Lids mixed grades | postconsumer
- Post Industrial mixed grades | post industrial
- FIBC Bags fiber grade | post industrial | flexible
HDPE Bales

High Density Polyethylene Bales - Natural

Post-Consumer, Blow mold grade, Homopolymer
Examples may include: natural (without pigment) bottles, primarily milk and water

COMPOSITION + QUALITY STANDARDS
A natural HDPE bale should contain homopolymer (natural), blow mold grade, post consumer bottles and be baled separately from mixed color or pigmented bottles which have a separate spec.

Bales may measure 3x4x5", 4x6x4" or other standard size and should be secured with 10-12 gauge galvanized baling wire or other non-corroding strappping. Bales should not be stored outside, uncovered any longer than four weeks prior to shipment. Cardboard may be used to prevent exposure and maintain bale integrity.

Any items that previously contained hazardous material, residue and/or medical waste will be rejected.

CONTAMINANTS
- Paper, cardboard and metal
- Any plastic not of the specified type i.e., PET, PVC, LDPE, PP, PS, or Other (may be marked as #7) film
- More than 2% of any other material that is not plastic i.e., wood, styrofoam, rubber, liquid, paint or other residuals, etc.
- Excessive amount of debris (sand, rocks, dirt, etc.) or moisture
- Heavy bale residue, grease or grime
- Industrial cooking oil containers can be included in mixed color bales
- Any plastic that has deteriorated from sun or weather exposure
- Injection grade plastics (bulky rigid) - wide mouth containers, crates, buckets, etc. There are separate specs for this material.

PRICING
All prices are FOB selling point unless otherwise agreed. Base price per pound is determined by freight expense, material quality and a truck load weight of 40,000 pounds (see freight charges). All trucks are weighed empty and full on scales calibrated to ±10 lb. accuracy, KW weighs govern settlement. Price reductions/freight charge may apply.

REJECTIONS + PRICE ADJUSTMENTS
Material purchased not meeting quality standards so as to render the material difficult to process or completely unmanageable will be subject to price adjustments or rejection. If a load or partial load is rejected due to non-conformity to specifcations, the materials supplier shall be responsible for any and all additional costs resulting from the rejection of such load including, but not limited to inbound/outbound shipping, demurrage, additional labor charges, landfill fees and other associated costs. Arrangements to pick-up or return rejected material must be made in a timely manner to avoid additional demurrage charges.

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KW PLASTICS IS THE INTERNATIONAL LEADER IN HIGH DENSITY POLYETHYLENE AND HIGH QUALITY PLASTIC MATERIALS FOR RECYCLING. FOR MORE INFORMATION, PLEASE VISIT KWPLASTICS.COM OR CALL 1-334-770-4438.
PIGMENTED HDPE Bales

High Density Polyethylene Bales-Pigmented

Post-Consumer, Blow mold grade, Co-polymer
Examples may include: mixed color household bottles, white & yellow milk jugs

COMPOSITION + QUALITY STANDARDS
A pigmented/ mixed color HDPE bale should contain colored (including white), post consumer bottles.
Bales may measure 3x4x5", 4x4x4" or other standard size and should be secured with 10-12 gauge galvanized baling wire or other non-corroding strapping. Bales should not be stored outside, uncovered any longer than four weeks prior to shipment. Cardboard may be used to prevent exposure and maintain bale integrity.

Any items that previously contained hazardous material, residue and/or medical waste will be rejected.

CONTAMINANTS
> Paper, cardboard and metal
> Any plastic not of the specified type: i.e., PET, PVC, LDPE, PP, PS, or other (may be marked as #7: film
> More than 2% of any other material that is not plastic: i.e., wood, styrofoam, rubber, paper, paint or other residuals, etc.
> Excessive amount of debris (sand, rocks, dirt, etc.) or moisture; heavy bale residue, grease or grime.
> More than 4% of total bale weight of automotive oil containers, must be thoroughly drained and rinsed. Any insecticide or other chemical bottles are unacceptable and may be grounds for penalty.
> Any plastic that has detonated from sun or weather exposure
> Injection grade plastic (bulky rigid)-wide mouth containers, crates, buckets, etc. There are separate specs for this material.

Pricing
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FREIGHT CHARGES

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KW PLASTICS IS THE INTERNATIONAL LEADER IN HIGH DENSITY POLYETHYLENE AND OTHER PLASTIC RESOURCES. WE PROVIDE tailor-made solutions with the best customer service for all your plastic needs.
BULKY RIGIDS
HDPE Bales

High Density Polyethylene Bulky Rigid Bales

Post-Consumer Injection grade
Examples may include: carts, crates, buckets, baskets, lawn furniture, etc.

COMPOSITION + QUALITY STANDARDS
A Bulky Rigid bale should contain injection grade HDPE, typically found to be wide mouthed containers and/or oversized items. Metal such as axels and bolts should be removed.

Bales may measure 3x4x5", 4x6x4" or other standard size and should be secured with 10-12 gauge galvanized baling wire or other non-corroding strapping. Bales should not be stored outside, uncovered any longer than four weeks prior to shipment. Cardboard may be used to prevent exposure and maintain bale integrity.

Any items that previously contained hazardous material, residue and/or medical waste will be rejected.

CONTAMINANTS
- Paper, cardboard and metal
- More than 4% of bale weight of plastic not of the specified type: i.e., PET, PVC, LDPE, PP, PS, or Other (may be marked as #7), film or fiber, HDPE blow mold grade (frag melts) or 1MW (drums).
- More than 2% of any other material that is not plastic: i.e., wood, styrofoam, rubber, liquid, paint or other residues, etc.
- Excessive amount of debris (sand, rocks, dirt, etc.) or moisture
- Heavy bulker residue, grease or grime
- Any plastic that has deteriorated from sun or weather exposure

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KW Plastics Recycling Division
Purchasing Specification Sheet
279 Pike County Lake Rd. Troy, AL 36081  |  334.566.1563  |  800.633.8744  |  kwplastics.com

PRICING
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FREIGHT CHARGES
NET WEIGHT
35,000 lbs
34.00 lbs

KW PLASTICS IS THE INTERNATIONAL LEADER IN HIGH DENSITY POLYETHYLENE AN D BULKY RIGID BALE RECYCLING.
TUBS & LIDS
Postconsumer PP Bales

Post-Consumer Polypropylene Tubs & Lids Bales

PP thermoform examples: yogurt cups, margarine tubs & lids, drink cups, clam shells, food trays
PP blow mold examples: hot-fill jugs and bottles (i.e., ketchup, tea, juice)

COMPOSITION + QUALITY STANDARDS
A PP Tubs & Lids Bales, as defined by KW Plastics, should contain post-consumer PP. We anticipate and accept up to 2% LDPE within the bale. All metal components should be removed.

Bales may measure 3x4x5”, 4x6x4” or other standard size and should be secured with 10-12 gauge galvanized baling wire or other non-corroding strapping. Bales should not be stored outside, uncovered any longer than four weeks prior to shipment. Cardboard may be used to prevent exposure and maintain bale integrity.

CONTAMINANTS
>Paper, cardboard and metal
> More than 4% of bale weight of plastic not of the specified type: i.e., PET, PVC, PS, film or fiber
> More than 2% of any other material that is not plastic: i.e., metal, styrofoam, paper, cardboard, wood, rubber, liquid paint or other residuals, etc.
> Excessive amount of debris (sand, rocks, dirt, etc.) or moisture
> Heavy bale residue, grease or grime
> Any plastic that has deteriorated from sun or weather exposure

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FREIGHT CHARGES
Net Weight
35,000 lbs  $  34,900 lbs

KW PLASTICS IS THE INTERNATIONAL LEADER IN HIGH DENSITY POLYETHYLENE AND POLYPROPYLENE RECYCLING. All materials purchased are for recycling. For more information, please visit www.kwplastics.com.
Polypropylene FIBC Bales
Post-Consumer and Post-Industrial
Examples may include: bulk bags used for dry goods such as granules, resin, seeds, peanuts, starch, etc.

COMPOSITION + QUALITY STANDARDS

An flexible intermediate bulk container (FIBC) bale should contain woven bulk bags. We understand the bale will likely contain other plastic components such as nylon, PET, and LDPE. These contaminants should be kept to a minimum.

Bales may measure 3x4x5', 4x6x4' or other standard size and should be secured with 10-12 gauge galvanized baling wire or other non-corrosive strap. Bales should not be stored outside, uncovered any longer than four weeks prior to shipment.

Any items that previously contained hazardous material, residue and/or medical waste will be rejected.

CONTAMINANTS

> Paper, cardboard and metal
> Any plastic not of the specified type: i.e., PET, HDPE, PVC, LDPE, PS, Other (may be marked as #7)
> More than 2% of any other material that is not plastic: i.e., wood, styrofoam, wood, rubber, liquid paint or other residuals, etc.
> Excessive amount of debris (sand, rocks, dirt, etc.) or moisture
> Foil Liners
> Free flowing material
> Chemicals and/or additives: i.e., carbon black, super absorbent polymers, frac sand, etc.
> Any plastic that has deteriorated from exposure to sun

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FREIGHT CHARGES

NET WEIGHT
30,000 lbs
29,000 lbs

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KW PLASTICS IS THE INTERNATIONAL LEADER IN HIGH DENSITY POLYETHYLENE AND HIGH DENSITY POLYETHYLENE ALLOYS. ALL MATERIALS PURCHASED ARE FOR RECYCLING. FOR MORE INFORMATION, PLEASE VISIT WWW.KWPLASTICS.COM.
DEMAND
Final Product & Applications

Premium postconsumer resins to
• Automotive
• Beauty & Personal Care
• Pipe
• Paint & Coatings
• Agriculture
• Packaging & Sheet
DEMAND
Applications

TruSnap
KW Container
CHALLENGES
Obstacles & Issues

- Contamination
- Shortage in Supply
- Mixed Messages re: domestic markets
- Demand exceeds supply
- Under utilized capacity
REGIONAL SUPPLY

2017 Central Southeast Volume

Total = 42,568,270 lbs. annual
8-9% of total volume KW processed
KW Plastics purchases HDPE and PP every day

Domestic end markets are strong and reliable

We always need more, better material

Demand for quality applications exceeds supply

Plastics have more value when recycled

The SE is poised for recycling growth
KW IS READY TO GROW WITH YOU!

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