# Specifications – Examples

August 14, 2020

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Clothing

Marketplace
100% post-consumer PET

Massachusetts
Made with recycled materials (e.g. recycled polyester and or PET plastic) or organically grown cotton, bleached without the use of chlorine, or similar environmental attribute - desirable

Floor Coverings

Massachusetts
Flooring, hard surface
Must be certified by one of the following:
- The Cradle to Cradle Innovation Institute at the Silver Level or Higher
- Scientific Certification System (SCS) Under Its FloorScore Standard
- UL GREENGUARD Gold
- Forest Stewardship Council (FSC)

It is desirable that the products have at least 30% post-consumer recycled content or 50% total recycled content.

New York
Carpet & carpet tile
https://ogs.ny.gov/greenny/carpet-and-carpet-tile

Furniture – Indoor & Out-of-Doors

Federal
Building furnishings
- CPG (see Office Furniture Components)

Park benches
- Plastic
  - CPG 100% recovered plastic, including 90-100% postconsumer content
- Plastic composites
  - CPG 100% recovered plastic composites, including 50-100% postconsumer content

Picnic tables
- Plastics
  - **CPG** 100% recovered plastic, including 90-100% postconsumer content

- Plastic composite
  - **CPG** 100% recovered plastic composites, including 50-100% postconsumer content

**Playground equipment**

- Plastics
  - **CPG** 100% recovered plastic, including 90-100% postconsumer content

- Plastic composites
  - **CPG** 95-100% recovered plastic composites, including 50-75% postconsumer content

**Massachusetts**

**Playground equipment**

- Plastics: 100% recovered plastic, including minimum 90% PCRC
- Plastic Composites: Minimum 95% recovered plastic composite, including minimum 50% PCRC

Desirable: Vendors provide take-back services for recycling of packaging and damaged or out of date products

**New York**

**Furniture**

[https://ogs.ny.gov/greenny/furniture](https://ogs.ny.gov/greenny/furniture)

**Playground equipment**


Non-wood-based Products

- **Thermoplastic** – the plastic portion of the product must be composed of 100% recycled content and at least 90% post-consumer plastic.
- **Thermoset Plastic** – the plastic portion of the product must be composed of at least 50% post-industrial or post-consumer recycled content.
- **Plastic composite (using thermoplastic)** – the plastic portion of the product must be composed of 100% recycled content and at least 50% post-consumer content.
- **Plastic composite (using thermoset plastic)** – the plastic portion of the product must be composed of at least 50% post-industrial or post-consumer recycled content.

**Landscaping**

**Federal**


- **Garden hose**
  - **CPG** 60-65% postconsumer plastic
• **Soaker hose**
  - CPG 60-70% postconsumer plastic

• **Lawn and garden edging**
  - CPG 30-100% recovered plastic including 30-100% postconsumer content

### Non-pressure Pipes

**AASHTO**

Model specification for purchasing plastic corrugated drainage pipe that contains post-consumer plastic, as approved by AASHTO M294R.

Add into a solicitation for municipal gravity flow storm sewer and/or drainage projects the following language:

For municipal gravity flow storm sewer and/or drainage projects, there is a [preference][requirement] that the corrugated plastic pipes meet or exceed the requirements of AASHTO M294R or ASTM F2306 and are labeled as containing recycled content.

**Federal**

- CPG
  - 100% postconsumer high density polyethylene
  - 25-100% recovered polyvinyl chloride; including 5-15% postconsumer content

### Office Products

**Federal**

*Binders*


• Plastic
  - CPG
    - 80% postconsumer miscellaneous plastics
    - 100% postconsumer polyethylene terephthalate
    - 30-50% recovered polyethylene; including 30-50% postconsumer content

• Plastic-covered
  - CPG 25-50% recovered material

• Solid plastic
  - CPG 90% postconsumer high density polyethylene

*Plastic clip portfolios*

- CPG
90% postconsumer high density polyethylene

**Plastic clipboards**
- CPG
  - 90% postconsumer high density polyethylene
  - 50% postconsumer polystyrene
  - 15-80% recovered plastics including 15% postconsumer material

**Plastic desktop accessories**
- CPG
  - 25-80% postconsumer polystyrene

**Plastic file folders**
- CPG
  - 90% postconsumer high density polyethylene

**Plastic presentation folders**
- CPG
  - 90% postconsumer high density polyethylene

**Massachusetts**

**Binders**
Mandatory
- Plastic with chipboard or cardboard interior: minimum 30% PCRC, desirable to have no antimicrobial coatings
- Solid Plastic: made of materials that are readily recyclable in residential programs

**Outdoor Lumber**

**Federal**

**Timber & posts**
- CPG
  - 95-100% other mixed recovered resins including 50-100% postconsumer content
  - 100% recovered mixed plastics/sawdust including 50% postconsumer content
  - 75-100% recovered high density polyethylene including 25-100% postconsumer content
95% recovered high density polyethylene/fiberglass including 75% postconsumer content

**Pallets**
- CPG
  - 100% postconsumer plastic lumber
  - 25-50% postconsumer thermoformed

**Massachusetts**

**Fencing, decking, railings**
All plastic used for fencing and post materials must be made from a minimum of 60% post-consumer recycled plastic (PCRP)

**Landscape timbers**
Includes all timbers designed for use in landscaping applications.

If timber is not solid wood, it must contain a minimum of 90% total recovered materials, at least 50% of which must be recycled plastic. Timbers may contain fiberglass, wood, or other non-plastic material designed to provide structural strength; however such material must be from recycled material and cannot comprise more than 50% of the total product.

All plastic lumber must be guaranteed against undue warping, sagging, cracking, splitting, rotting, and insect infestation for a minimum of ten (10) years.

**Lumber, composite dimensional**
Minimum 90% total recovered materials, at least 25% of which must be PCRC plastic. Lumber may contain fiberglass, wood, or other non-plastic material designed to provide structural strength; however, such material must be recycled and must comprise no more than 50% of the total product.

**Lumber, plastic dimensional**
Minimum of 90% PCRC plastic material. Must be free of fiberglass or any other non-plastic material. Plastic may be derived from a single resin or from co-mingled plastic materials.

**Plastic Bags**

**Federal**

**Trash bags**
- CPG
  - 10-100% postconsumer plastic

**Massachusetts**
All bags are made of 100% low-density polyethylene LDPE, contain a minimum of 20% post-consumer recycled content, and are available in a range of colors.
Trash bags, imprinted
• 100% low-density polyethylene (LDPE) plastic.
• 20% PCRC

Trash can liners, bags
• Minimum 10% PCRC
• For HDPE Clear Plastic Liners in the 7-12 gallon range, no recycled content is required, but desired.
  However, the maximum thickness may not exceed 10 microns

Trash can liners
• All liners should be compliant with CONEG’s Toxics in Packaging Guidelines and Proposition 65 guidelines
• Liners may not contain any fluorinated grease or water-repellent compounds.
• All liners shall contain a minimum 50% post-consumer recycled content.
• Desirable: it is desirable for the liners to have Forest Stewardship Council (FSC) certification.

Wastebaskets/recycling containers
Must contain 20% PCRC

Minnesota
Can liners and bags
The polyethylene can liners/bags must meet the following ASTM standards:
• ASTM D2103, Standard Specification for Polyethylene Film and Sheeting
• ASTM D1709, Standard Test Methods for Impact Resistance of Plastic Film by the Free- Falling DART Method
• ASTM D1922, Standard Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method
• ASTM D882, Standard Test Method for Tensile Properties of Thin Plastic Sheeting

Recycled Content
• Price Schedule A: Polyethylene bags of 0.7 mil thickness or greater MAY contain a minimum of 25% recycled content, of which 10% MAY be post-consumer recycle content.
• Price Schedule B: Polyethylene bags of 0.7 mil thickness or greater MUST contain a minimum of 25% recycled content, of which 10% MUST be post-consumer recycled content.
• Price Schedule B: Polyethylene bags of 0.7 mil thickness or greater MUST contain a minimum of 25% recycled content, of which 10% MAY be post-consumer recycled content.

New York
Trash bags
https://ogs.ny.gov/greenny/trash-bags
Recycling Containers, Bins, Roll-Offs, & Compost Containers

Federal

**Office Recycling Containers and Waste Receptacles**
  - CPG 20-100% postconsumer plastic

Massachusetts

All products are required to contain reused or recycled content.

*Compost bins*
Mandatory minimum 50% PCRC

*Rolling carts, wheeled*
Must have a total of at least 30% post-consumer recycled plastic by weight (can be incorporated into the lid, cart body or both as long as the cart body/lid combination is at least 30% post-consumer recycled plastic)

*Set-out recycling barrels*
Must be manufactured with a minimum of 50% recycled plastic; a minimum of 25% must be post-consumer recycled plastic which is generated from municipal recycling programs, (e.g., milk jugs, detergent containers); a maximum of 25% may be post-industrial plastic generated from commercial or industrial businesses or institutional sources, (e.g., milk crates, bakery trays)

*Set-out recycling containers*
Must be manufactured with a minimum of 50% recycled plastic; a minimum of 25% must be post-consumer recycled plastic which is generated from municipal recycling programs; a maximum of 25% may be post-industrial plastic generated from commercial or industrial businesses or institutional sources

*Storage boxes*
10-40% PCRC, desirable

*Wastebaskets*
All plastic wastebaskets and recycling containers must contain a minimum of 20% post-consumer recycled content.

Traffic Control

Federal

**Traffic barricades**
- CPG
  - 100% recovered plastic; including 80-100% postconsumer content
Traffic cones
- CPG
  o 50-100% recovered plastic

Massachusetts
Traffic cones
Minimum 8% PCRC

New York
Traffic cones
https://ogs.ny.gov/greenny/traffic-safety-products

Third Party Certifications Verifying Post-Consumer Recycling Content
- APR certified resins
- SCS Global Services
- GreenCircle Certified
- Intertek
- UL

ISO has a standard that defines the requirements and definitions that such a certification should meet: ISO 14021.