Crash Course!

Wednesday, 19 May 2021

The APR Design® Guide for Plastics Recyclability

Sponsored by US Plastics Pact™ and APR (The Association of Plastic Recyclers)
Questions and Audio – Mobile Device
TODAY’S TEAM

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President & CEO, Common Sense Solutions
2021 Webinars

✓ The Value of PCR and APR’s PCR Certification Program

✓ Complete the Cycle of Recycling. Buy Recycled!

* The APR® Design Guide for Plastics Recyclability Crash Course

Coming Up: Plastics Recycling Legislative Update
Wednesday, June 16 @ 2:00 pm eastern
APR is the only North American Trade Association focused exclusively on plastics recycling.
Increase Supply
Enhance Quality
Expand Demand
Communicate Value

APR Primary Goals
WHY IS DESIGN FOR RECYCLABILITY IMPORTANT?

Consumers want to create less waste, they feel recycling is important, and they think companies should step up.

81% Of consumers want to find ways to create less waste.

79% Think companies should spend +1% of profits to address climate change.

87% Feel recycling is important.

SURVEY RESULTS FROM SWNS, N=2000, APR 2019. Confidential to The Recycling Partnership
ENSURING PACKAGE DESIGN FITS WITH RECYCLING INFRASTRUCTURE

- APR Design® Guide for Plastics Recyclability
- Test Methods
- Training
- Communication
- Advocacy
APR’S GLOBAL INFLUENCE
WHAT MAKES SOMETHING RECYCLABLE?

60% consumer access

Processed by existing infrastructure
  • sort
  • clean

Can be manufactured into identifiable product
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APR Design guide represents
• Web based – open source document (for now)
• Represents the recycling industry’s capabilities and the effect package design features have on the industries ability to process an item and produce high quality PCR from that.
DESIGN GUIDE SCOPE

1. Curbside
2. Deposit
3. Grocery Store Drop off (PE film)
MRF AND RECYCLERS SORTING REPRESENTED

- Small
- 2d3d
- Magnetic
- Conductive
- Metal detection
- NIR/Color

STEEL
ALUMINUM
PLASTICS
GLASS
CARDBOARD
PAPER
FILM

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EXAMPLES OF PLASTICS RECYCLERS STEPS REPRESENTED

- Washing
- Density separation
- Air classification
The APR Design Guide for Plastics Recyclability represents the limits and capabilities of all commonly practiced commercial recycling processes.

If process x has one limitation and process y has another, the Design Guide will recognize both limitations.
• One chapter for each polymer
A PACKAGE IS A COMPILATION OF design features

- Size
- Shape
- Additives
- Color
- Attachments
- Adhesive
- Label
- Polymer
- Inks
Each design feature is classified into a recyclability category

<table>
<thead>
<tr>
<th>DESIGN FEATURES</th>
<th>RECYCLABILITY CATEGORIES</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

- APR Design® Preferred
- Detrimental to recycling
- Renders the package non-recyclable
- Requires testing

"preferred" "detrimental..." "not recyclable..."
## UNDERSTANDING THE RECYCLABILITY CATEGORIES

### CONSIDERS PROCESSING AND QUALITY

<table>
<thead>
<tr>
<th>PREFERRED</th>
<th>DETRIMENTAL TO RECYCLING</th>
<th>RENDERS THE PACKAGE NOT RECYCLABLE PER APR DEFINITION OF RECYCLABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimal negative processing effects</td>
<td>potentially some negative processing effects</td>
<td>can’t pass through the process</td>
</tr>
<tr>
<td>Sorting and Recycling process</td>
<td>Sorting and Recycling process</td>
<td>Sorting and Recycling process</td>
</tr>
<tr>
<td>Minimal negative quality effects (not necessarily perfect)</td>
<td>Potentially some negative quality effects (recyclers reluctantly accept the package)</td>
<td>No output</td>
</tr>
</tbody>
</table>

Wrong stream or waste
Live Demo: http://www.plasticsrecycling.org/
THE APR® DESIGN GUIDE FOR PLASTICS RECYCLABILITY TRAINING PROGRAM

Three offerings:

• Company specific, full day program, now offered virtually
• 1 ½ hr Lunch and learn program
• Regional 2 day programs with facility tours (on hold during the pandemic)
DESIGN GUIDE TRAINING PROGRAM COMPLETED
APR believes that *functional, attractive, and economical* plastic products can be designed that are also *fully compatible* with material recovery and plastics reclamation systems.
The Association of Plastic Recyclers

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