Environmental Product Declaration (EPD) Program

Virtual Officers’ Training Week
September 2015

Presenters: Chris Surak
Outline

- Overview of EPDs, LCAs and PCR
- Market Drivers
- Program Operator Responsibilities
What is an EPD?

Impact of product on the environment
- Quantifiable environmental data
- Based on life cycle assessment
- Third party verified

Allows for possibility of comparison of products
- Evaluation criteria are scientific, complete, and transparent

Type III Environmental Label

<table>
<thead>
<tr>
<th>Nutrition Facts</th>
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<tbody>
<tr>
<td>Serving Size 1/2 cup dry (40 g)</td>
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<tr>
<td>Servings Per container: 13</td>
</tr>
<tr>
<td>Amount Per Serving</td>
</tr>
<tr>
<td>Calories 150</td>
</tr>
<tr>
<td>% Daily Value*</td>
</tr>
<tr>
<td>Total Fat 3 g</td>
</tr>
<tr>
<td>Saturated Fat 0.5 g</td>
</tr>
<tr>
<td>Trans Fat 0 g</td>
</tr>
<tr>
<td>Cholesterol 0 mg</td>
</tr>
<tr>
<td>Sodium 0 mg</td>
</tr>
<tr>
<td>Total Carbohydrate 27 g</td>
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<tr>
<td>Dietary Fiber 4 g</td>
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<tr>
<td>Sugars 1 g</td>
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<tr>
<td>Protein 5 g</td>
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<tbody>
<tr>
<td>Vitamin A</td>
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<tr>
<td>Vitamin C</td>
</tr>
<tr>
<td>Calcium</td>
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<td>Iron</td>
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*Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs. | 
| Calories | 2,000 | 2,500 |
| Total Fat | Less than 65 g | 80 g |
| Sat Fat | Less than 20 g | 25 g |
| Cholesterol | Less than 300 mg | 300 mg |
| Sodium | Less than 2,400 mg | 2,400 mg |
| Total Carbohydrate | 300 g | 375 g |
| Dietary Fiber | 25 g | 30 g |
What is Life Cycle Assessment?

Life cycle assessment – compilation and evaluation of the inputs and outputs and the potential environmental impacts of a product through its life span

- Raw material acquisition
- Production
- Use
- End-of-life treatment (final disposal)
Environmental Impact Categories

EPDs provide numerical values for:

- Global warming potential (green houses gases)
- Smog potential
- Acidification
- Eutrophication
- Ozone depletion
What are Product Category Rules (PCR)?

Product Category Rules

- Rules and requirements for developing the EPD
- Harmonization requirements with existing PCR
- Developed by interested parties
- Independent verification by Review Panel
Market Drivers

LEED v4 (US Green Building Council)
- New Construction Credits
- Building product disclosure and optimization – environmental product declarations

Architecture 2030

International Green Construction Code (IGCC)

TRANSPARENCY
ASTM as a Program Operator

Discussion at April 2012 Board Meeting

Existing PCR work being done in several Technical Committees

Extension of Standards and Services
Program Operator Responsibilities

Follow ISO 14025 Environmental Labels and Declarations
  – General Program Instructions (procedures)
  – ASTM is recognized by ANSI as a Program Operator

Process:
  – Review of existing PCR
  – Development of PCR – Stakeholder Group
  – Public review of draft PCR
  – Independent verification of PCR – Review Panel
  – Conduct life cycle assessment – Manufacturer
  – Development of EPD – Manufacturer
  – Verification of EPD – LCA expert

Program Operator - Make PCR and EPDs publically available
ASTM as a Program Operator

• Existing PCR
  • Roofing, concrete/cement/masonry fields, Interior doors

• PCR in Development
  • Glass mat panels, revolving and power doors…

Business
• PCR development – no charge to industry
• LCA review and EPD verification – nominal fee
Contact Information

Chris Surak

- Phone: (610) 832-9711
- Email: csurak@astm.org
- EPD web page: [www.astm.org/EPDs](http://www.astm.org/EPDs)
  - Frequently Asked Questions