



EcoLeaf

Type III Environmental Declaration (EPD)

Registration number : JR-BA-21002E

Ecoleaf Environmental Labeling Program

Sustainable Management Promotion Organization

2-1, Kaji-cho 2 chome, Chiyoda-ku, Tokyo Japan

<https://ecoleaf-label.jp/>

Kotec Corporation

PPS RS-1340 R grades recycled pellets  
(RS-1340 Polyphenylenesulfide recycled 100%)



**Functional unit**

Per 1 kg

**System boundary**

final products     intermediate products

**Main specifications of the product**

Grade: RS-1340

Polyphenylenesulfide pellets recycled from  
100% of post-industrial scraps

**Company Information**

Kotec corporation

3-21-15, Chayamadai, Minami, Sakai, 590-0115 Japan

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<b>Registration#</b>	JR-BA-21002E
<b>PCR number</b>	PA-165000-BA-02
<b>PCR name</b>	Recycled plastic raw materials (intermediate products)
<b>Publication date</b>	14th July, 2021
<b>Verification date</b>	8th July, 2021
<b>Verification method</b>	Product-by-product
<b>Verification#</b>	JV-BA-21002
<b>Expiration date</b>	7th July, 2026

**PCR review was conducted by:**

Approval date	1st October, 2019
PCR review panel chair	Masayuki Kanzaki, Chairperson Japan Environmental Management Association for Industry

**Third party verifier\***

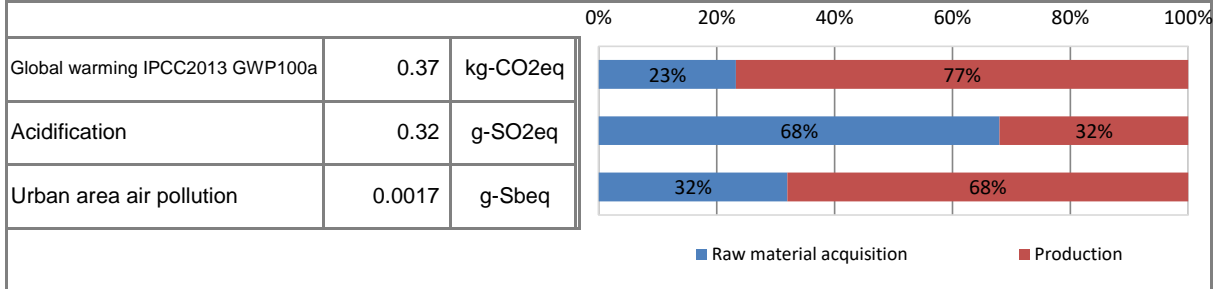
**External verifier**    Yuki Sakamoto

Independent verification of data & declaration in  
accordance with ISO14025

internal     external

\*Auditor's name is stated if system certification has been performed.

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**1. Results of life cycle impact assessment (LCIA)**

Parameter	stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO <sub>2</sub> eq	3.7E-01	8.5E-02	2.8E-01			
Ozone layer destruction		kg-CFC-11eq	8.1E-09	8.0E-09	1.2E-10			
Acidification		kg-SO <sub>2</sub> eq	3.2E-04	2.2E-04	1.0E-04			
Urban area air pollution		kg-SO <sub>2</sub> eq	1.3E-04	8.9E-05	4.4E-05			
Photochemical ozone		kg-C <sub>2</sub> H <sub>4</sub> eq	7.0E-06	5.3E-07	6.5E-06			
Toxic chemicals(cancer)		kg-C <sub>6</sub> H <sub>6</sub> eq	1.6E-06	2.5E-08	1.5E-06			
Toxic chemicals(chronic disease)		kg-C <sub>6</sub> H <sub>6</sub> eq	2.3E-07	3.7E-09	2.3E-07			
Aquatic toxicity		kg-C <sub>6</sub> H <sub>6</sub> eq	3.5E-04	5.7E-06	3.5E-04			
Biological toxicity		kg-C <sub>6</sub> H <sub>6</sub> eq	8.6E-03	1.4E-04	8.5E-03			
Eutrophication		kg-PO <sub>4</sub> <sup>3-</sup> eq	3.9E-06	9.5E-09	3.9E-06			
Land use(Occupation)		m <sup>2</sup> /year	8.2E-03	7.7E-03	5.0E-04			
Land use(Transformation)		m <sup>2</sup>	1.6E-04	1.5E-04	1.0E-05			
Resources consumption		kg-Sbeq	1.7E-06	5.5E-07	1.2E-06			

**2. Life cycle inventory analysis (LCI)**

項目		単位
Non-renewable material resources	3.5E-04	kg
Non-renewable energy resources	1.4E-01	kg
Non-renewable energy resources	6.1E+00	MJ
Renewable material resources	1.0E-02	kg
Renewable primary energy	1.6E-01	MJ
Consumption of freshwater	1.6E-04	m <sup>3</sup>

**3. Material composition**

Material		Unit
Recycled Polyphenylenesulfide	99.32	%
Colorant	0.50	%
Paper bag	0.13	%
Stretch film	0.06	%

**4. Waste to disposal**

Parameter		Unit
Hazardous waste	-	kg
Non-hazardous waste.	2.7E-04	kg
Treated MSW for landfill	0.0E+00	kg
Treated industrial waste for landfill	2.7E-04	kg

\*Data derived from LCA and not assigned to the impact categories of LCIA

**5. Additional explanation**

As standard values (basic unit) are referenced in the assessment, the result might not precisely reflect the properties of product mentioned above. For this reason, it is to be noted that the result is merely approximate.



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#### 6-1. Supplementary environmental information

Manufactured by Kotec factory that is certified ISO140001

#### 6-2. Regulated hazardous substances

Substance	CAS No.	Reference to standards or regulations
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#### 7. Assumptions of secondary data used

IDEA v2.1.3 referenced

#### 8. Remarks

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- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied.  
(Reference URL : <https://ecoleaf-label.jp/regulation/>)

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