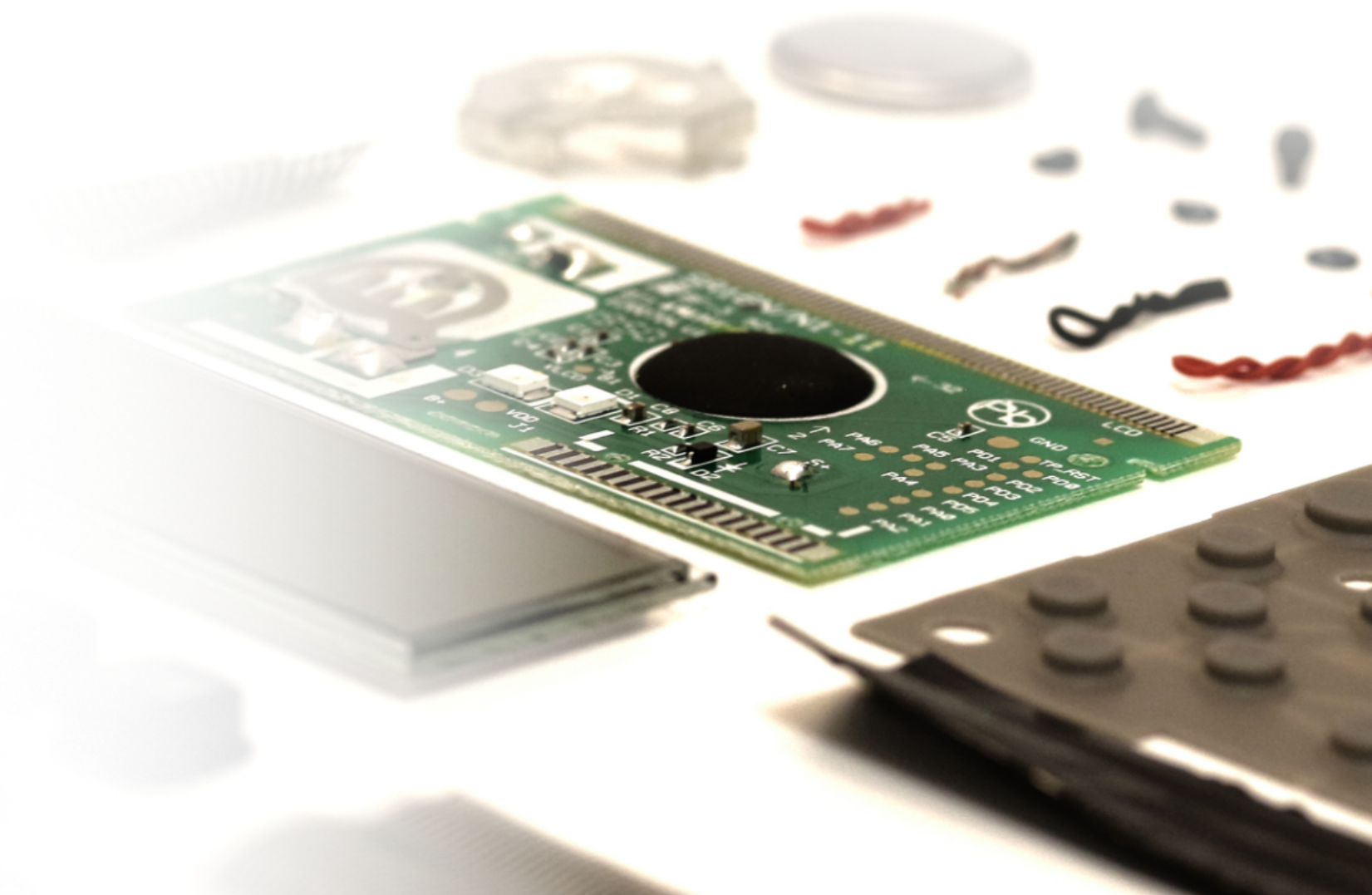


# Canadian Plastics Registry Details and Examples

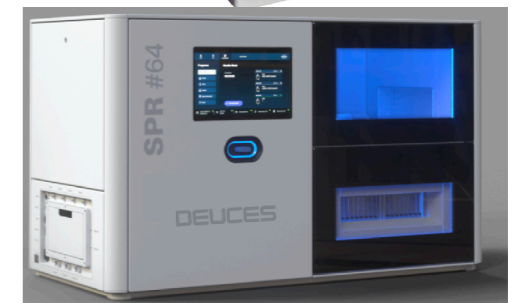
Presented by:  
Bruce Calder  
VP Consulting

July 31, 2024



# Overview - Agenda

- Example products
- Canadian Plastics Registry
  - Summary
  - Deadline
- Scope
  - Producer
  - EEE / Packaging / Single use plastics
  - Claigan FAQ
- North American Product Classification System
- Examples
  - Simple and complex products
  - Summarizing results
  - Combining sales volumes
- Canadian PFAS Reporting
  - Due January 2025
- Q&A



Intended to be 50  
 minutes  
 /w 10 min Q&A

# Claigan Webinar

## Examples Products - "Deuce's"

Fictional products based on representative product data



# Canadian Plastic Reporting

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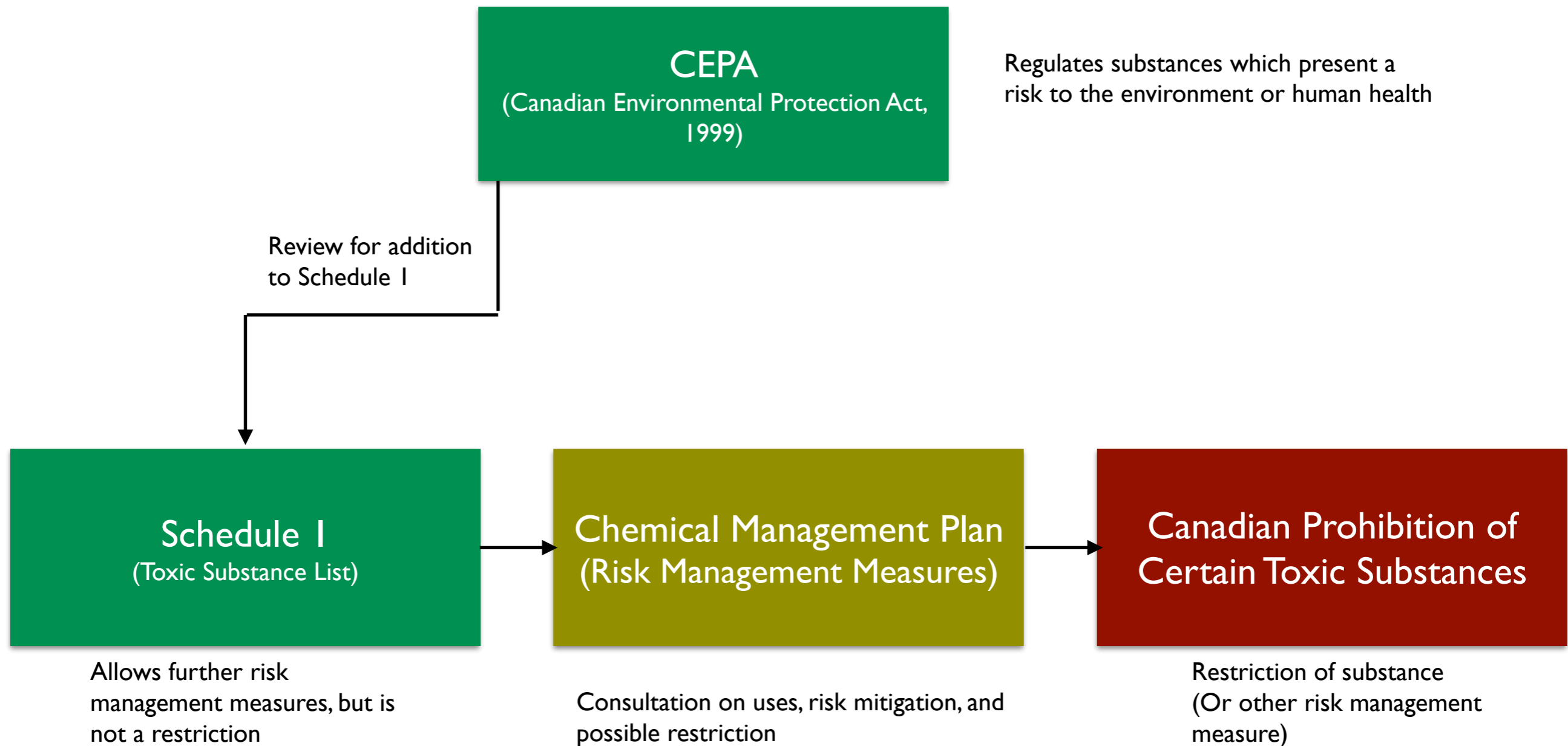
- **Canada has announced a registry for reporting of all plastics in electronics and packaging.**
- Scope
  - Packaging
  - Single-use or disposable plastics
  - Electronic and electrical equipment
  - Agriculture products
  - Textiles
  - Automotive
  - Construction
  - Fishing
  - Plastics resins

# Canadian Plastic Registry

- Timeline**

Category	Quantity of resin:	Quantity of plastic in packaging and products	Quantity of plastic waste generated at a facility	Quantity of plastic collected at end of life	Quantity of plastic sent for diversion	Quantity of plastic sent for disposal
Plastic Resins	2026	N/A	N/A	N/A	N/A	N/A
Packaging	N/A	2025	2026	2026	2026	2026
Electronic and Electrical Equipment (EEE)	N/A	2025	2026	2027	2027	2027
Single-use or disposable plastic products	N/A	2025	2026	2026	2026	2026
Agriculture and Horticulture	N/A	2026	2026	2026	2026	2026
Tires	N/A	2026	2026	2027	2027	2027
Transportation	N/A	2026	2026	Beyond 2027	Beyond 2027	Beyond 2027
Construction	N/A	2026	2026	Beyond 2027	Beyond 2027	Beyond 2027
Fishing and aquaculture	N/A	2026	2026	Beyond 2027	Beyond 2027	Beyond 2027
Textiles and apparel	N/A	2026	2026	Beyond 2027	Beyond 2027	Beyond 2027

# Canadian Chemical Regulation



[163. Plastic Manufactured Items](#)

Section 71 Notices ← Jan 2025 PFAS Reporting

Section 46 Notices ← Canadian Plastics Registry



# Canadian Plastics Registry

## 2025 Reporting

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- **Products required to report in 2025**
  - Packaging
  - Single-use or disposable plastics
  - Category I: Electronic and Electrical Equipment (EEE)
- **Deadline September 29 2025**
  - For products manufactured in or imported into Canada in 2024
- **2026 reporting (key items)**
  - Transportation (does not include aerospace)
  - Construction
  - Textiles (including industrial textiles. Based on customs codes)

# Canadian Plastics Registry 2025 Reporting

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- **Who is responsible**
  - The brand owner, if located in Canada
  - If not, importer of product into Canada



## Canadian Plastics Registry

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- **On Claigan [website](#)**

- **Typical questions**

- Is the registry mandatory?

*Yes. Section 46 notices from the Minister are mandatory for entities under scope.*

- Are professional products in scope?

*Yes. EEE and packaging related to the residential waste stream, and EEE and packaging related to the industrial, professional, and institutional waste stream is in scope  
But are reported separately.*

- Do you report all of your electronics together?

*Yes and No. All of the plastics in your electronics are reported together. But by end user (consumer vs prof.) and EEE sub cat.*

# EEE In Scope

- **Category I: Electronic and Electrical Equipment (EEE), within the following subcategories:**
  - (1) Electronic or electrical information technology or telecommunication devices or equipment
  - (2) Electronic or electrical audiovisual and consumer equipment or media
  - (3) Electronic or electrical appliances
  - (4) Electronic or electrical tools, other than large-scale stationary industrial tools
  - (5) Electronic or electrical lighting equipment
  - (6) Electronic or electrical toys
  - (7) Electronic or electrical sports equipment
  - (8) Electronic or electrical devices for arts, hobbies or crafts
  - (9) Electronic or electrical monitoring and control instruments
  - (10) Electronic or electrical dispensers
  - (11) Electronic or electrical medical devices or equipment
  - (12) Accessories for use with any products referred to in Category I
  - (13) Photovoltaic panels
  - (14) Chargers for battery-electric vehicles and plug-in hybrid electric vehicles, whether free-standing or wall-mounted



# Single Use or Disposable Products

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- **Category 8: Single-use or disposable products within the following subcategories:**

**(1) Food service ware:**

- (a) Clamshell containers, lidded containers, boxes, plates, and bowls
- (b) Takeaway cups
- (c) Lids for takeaway cups
- (d) Rigid ring carriers
- (e) Foam trays
- (f) Single-serve capsules and pods
- (g) Bags provided by a retailer and filled within the store with produce or bulk products

**(2) Personal hygiene and care products:**

- (a) Manual toothbrushes and replaceable toothbrush heads
- (b) Disposable diapers and menstrual products
- (c) Tubes for personal hygiene and care products
- (d) Razors and razor heads
- (e) Dental floss and flossers
- (f) Cotton swab sticks
- (g) Wipes

**(3) Novelty items**

**(4) Tobacco and vaping products**

- (a) Tobacco products containing filters
- (b) Vaping devices
- (c) Vaping cartridges

**(5) Personal protective equipment**

- (1) Masks
- (2) Gloves

# Canadian Plastic Reporting Reporting Requirement in 2025

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- **Requirement**
  - Certification that information is true
  - Business identity and address
  - Per sub-category *(If over 1 tonne imported per year)*
    - For each plastic resin (imported or manufactured)
      - Identity of each resin (NAPCS Code)
      - Source of resin (virgin, recycled, etc..)
      - Total quantity of each resin (in kg)
    - Method used to quantify the above

# Canadian Plastic Reporting ASML Variant Code - Examples

- From Statistic Canada Listings

**281 Plastic resins**

**28112 Thermoplastic resins, except biodegradable**

**281121 Thermoplastic polyester resins**

- 2811211 Polyethylene terephthalate (PET) resins
- 2811219 Other thermoplastic polyester resins

**281122 Polyethylene resins**

- 2811221 Low-density polyethylene (LDPE) resins
- 2811222 Linear low-density polyethylene (LLDPE) resins
- 2811223 High-density polyethylene (HDPE) resins
- 2811229 Other polyethylene resins

**281123 Polystyrene (PS) resins**

- 2811231 Polystyrene (PS) resins

**281129 Other thermoplastic resins**

- 2811291 Acrylonitrile-butadiene-styrene (ABS) resins
- 2811292 Polyvinyl chloride (PVC) resins
- 2811293 Polypropylene (PP) resins
- 2811294 Thermoplastic polyurethane (TPU) resins
- 2811295 Polyamide (PA, nylon) resins
- 2811299 All other thermoplastic resins, n.e.c.

**28113 Thermosetting resins, except biodegradable**

**281131 Phenol-formaldehyde resins**

- 2811311 Phenolic (PF) resins
- 2811312 Urea formaldehyde (UF) resins
- 2811319 All other formaldehyde based resins

**281139 Other thermosetting resins**

- 2811391 Thermosetting unsaturated polyester (UPR) resins
- 2811392 Thermosetting polyurethane (PU) resins
- 2811399 Other thermosetting resins, n.e.c.

**28114 Biodegradable plastic resins**

**281141 Biodegradable plastic resins**

- 2811411 Bio-based thermoplastic resins
- 2811412 Petroleum-based biodegradable thermoplastic resins



PBT



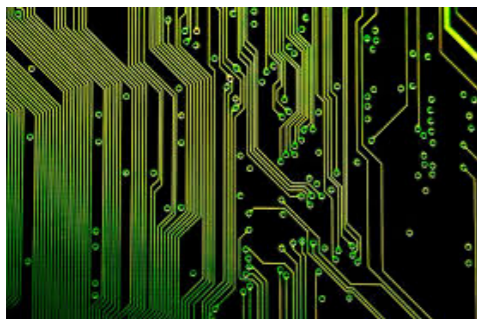
PET



Nylon



PTFE



Epoxy

# Canadian Plastic Reporting

## NAPCS Code - Out of Scope

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- **Out of Scope (Rubbers)**

- Not plastics according to Statistics Canada

**28211 Rubber and rubber compounds and mixtures**

**282111 Natural rubber**

2821111 Natural rubber

**282112 Synthetic rubber**

2821121 Synthetic rubber

- **Also out of scope**

- Metals, ceramics, glass, paper

# Deuce's 2025 Reporting

## Subcategories to Report

Packaging  
(Flexible)



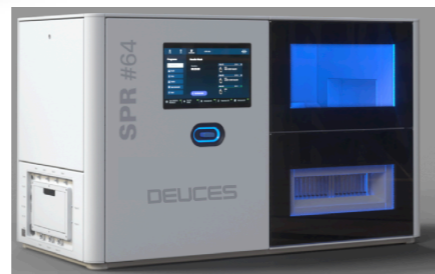
Packaging  
(Rigid)



EEE - Consumer  
(Monitoring and Control)



EEE - Professional  
(Monitoring and Control)



- For each plastic resin (imported or manufactured)
  - Identity of each resin (ASML Variant Code)
  - Source of resin (virgin, recycled, etc..)
  - Total quantity of each resin (in kg)
  - Method used to quantify the above

- For each plastic resin (imported or manufactured)
  - Identity of each resin (ASML Variant Code)
  - Source of resin (virgin, recycled, etc..)
  - Total quantity of each resin (in kg)
  - Method used to quantify the above

- For each plastic resin (imported or manufactured)
  - Identity of each resin (ASML Variant Code)
  - Source of resin (virgin, recycled, etc..)
  - Total quantity of each resin (in kg)
  - Method used to quantify the above

- For each plastic resin (imported or manufactured)
  - Identity of each resin (ASML Variant Code)
  - Source of resin (virgin, recycled, etc..)
  - Total quantity of each resin (in kg)
  - Method used to quantify the above

Summary		Full Summary	
Total # of Units sold in 2024	6,000	Average bill of materials method	
Summation method used		Product	Packaging
		Kg	Kg
281211 Polyethylene terephthalate (PET) resins	464	114	
281119 Other thermoplastic polymer resins	16	0	
281221 Low-density polyethylene (LDPE) resins	1,681	435	
281222 Linear low-density polyethylene (LLDPE) resins	0	0	
281223 High-density polyethylene (HDPE) resins	0	1	
281229 Other polyethylene resins	20	4	
281221 Polyethylene (PE) resins	1,277	17	
281201 Acrylonitrile-butadiene-styrene (ABS) resins	0	0	
281202 Polypropylene (PP) resins	805	0	
281203 Polypropylene (PP) resins	1,869	40	
281204 Thermoplastic polyurethane (TPU) resins	0	0	
281205 Polyamide (PA, nylon) resins	2,299	0	
281206 All other thermoplastic resins, n.e.c.	433	0	
281411 Bio-based thermoplastic resins	0	0	
281412 Petroleum-based/biodegradable thermoplastic resins	0	0	
281311 Phenolic (PF) resins	0	0	
281312 Urea formaldehyde (UF) resins	0	0	
281319 All other formaldehyde-based resins	0	0	
281301 Thermosetting unsaturated polyester (UP) resins	0	0	
281302 Thermosetting polyurethane (PU) resins	25	0	
281309 Other thermosetting resins, n.e.c.	76	0	
281413 Bio-based thermoset resins	0	0	
<b>Summary:</b>	<b>6,000</b>	<b>Full Summary</b>	
<b>Total # of Units sold in 2024</b>	<b>6,000</b>	<b>Average bill of materials method</b>	
<b>Summation method used</b>		<b>Product</b>	<b>Packaging</b>
		Kg	Kg
281211 Polyethylene terephthalate (PET) resins	464	114	
281119 Other thermoplastic polymer resins	16	0	
281221 Low-density polyethylene (LDPE) resins	1,681	435	
281222 Linear low-density polyethylene (LLDPE) resins	0	0	
281223 High-density polyethylene (HDPE) resins	0	1	
281229 Other polyethylene resins	20	4	
281221 Polyethylene (PE) resins	1,277	17	
281201 Acrylonitrile-butadiene-styrene (ABS) resins	0	0	
281202 Polypropylene (PP) resins	805	0	
281203 Polypropylene (PP) resins	1,869	40	
281204 Thermoplastic polyurethane (TPU) resins	0	0	
281205 Polyamide (PA, nylon) resins	2,299	0	
281206 All other thermoplastic resins, n.e.c.	433	0	
281411 Bio-based thermoplastic resins	0	0	
281412 Petroleum-based/biodegradable thermoplastic resins	0	0	
281311 Phenolic (PF) resins	0	0	
281312 Urea formaldehyde (UF) resins	0	0	
281319 All other formaldehyde-based resins	0	0	
281301 Thermosetting unsaturated polyester (UP) resins	0	0	
281302 Thermosetting polyurethane (PU) resins	25	0	
281309 Other thermosetting resins, n.e.c.	76	0	
281413 Bio-based thermoset resins	0	0	
<b>Summary:</b>	<b>6,000</b>	<b>Full Summary</b>	
<b>Total # of Units sold in 2024</b>	<b>6,000</b>	<b>Average bill of materials method</b>	
<b>Summation method used</b>		<b>Product</b>	<b>Packaging</b>
		Kg	Kg
281211 Polyethylene terephthalate (PET) resins	464	114	
281119 Other thermoplastic polymer resins	16	0	
281221 Low-density polyethylene (LDPE) resins	1,681	435	
281222 Linear low-density polyethylene (LLDPE) resins	0	0	
281223 High-density polyethylene (HDPE) resins	0	1	
281229 Other polyethylene resins	20	4	
281221 Polyethylene (PE) resins	1,277	17	
281201 Acrylonitrile-butadiene-styrene (ABS) resins	0	0	
281202 Polypropylene (PP) resins	805	0	
281203 Polypropylene (PP) resins	1,869	40	
281204 Thermoplastic polyurethane (TPU) resins	0	0	
281205 Polyamide (PA, nylon) resins	2,299	0	
281206 All other thermoplastic resins, n.e.c.	433	0	
281411 Bio-based thermoplastic resins	0	0	
281412 Petroleum-based/biodegradable thermoplastic resins	0	0	
281311 Phenolic (PF) resins	0	0	
281312 Urea formaldehyde (UF) resins	0	0	
281319 All other formaldehyde-based resins	0	0	
281301 Thermosetting unsaturated polyester (UP) resins	0	0	
281302 Thermosetting polyurethane (PU) resins	25	0	
281309 Other thermosetting resins, n.e.c.	76	0	
281413 Bio-based thermoset resins	0	0	
<b>Total Weight (Product)</b>	<b>7,720</b>	<b>811</b>	
<b>Stress Weight (Product) - Product and Packaging</b>	<b>8,240</b>		

# Claigan - Example Outputs

## Plastics Registry



Representative Product	DEUCES - Testing Equipment	DEUCES - Hand Held Multimeter	DEUCES - Centrifuge
# of Units sold in 2024	5,400	25,000	6,000
Product Weight (including packaging in g)	66,000	1,450	4,000
Plastic Composiiton	6.9%	35.9%	28.6%
Method used	Specific component identifi	Specific component identifi	Specific component identifi
	Product	Product	Product
	g	g	g
2811211 Polyethylene terephthalate (PET) resins	96	1	7
2811219 Other thermoplastic polyester resins	3	5	65
2811221 Low-density polyethylene (LDPE) resins	30	0	0
2811222 Linear low-density polyethylene (LLDPE) resins	0	0	0
2811223 High-density polyethylene (HDPE) resins	0	0	0
2811229 Other polyethylene resins	45	9	5
2811231 Polystyrene (PS) resins	33	140	0
2811291 Acrylonitrile-butadiene-styrene (ABS) resins	76	23	0
2811292 Polyvinyl chloride (PVC) resins	432	76	34
2811293 Polypropylene (PP) resins	978	0	120
2811294 Thermoplastic polyurethane (TPU) resins	0	0	1
2811295 Polyamide (PA, nylon) resins	364	15	33
2811299 All other thermoplastic resins, n.e.c.	1,593	89	312
2811411 Bio-based thermoplastic resins	0	0	0
2811412 Petroleum-based biodegradable thermoplastic resins	0	0	0
2811311 Phenolic (PF) resins	0	0	3
2811312 Urea formaldehyde (UF) resins	0	0	0
2811319 All other formaldehyde-based resins	0	0	0
2811391 Thermosetting unsaturated polyester (UPR) resins	0	0	0
2811392 Thermosetting polyurethane (PU) resins	25	0	25
2811399 Other thermosetting resins, n.e.c.	13	22	260
2811413 Bio-based thermoset resins	0	0	0
<b>Total Weight (Plastics)</b>	<b>3,688</b>	<b>380</b>	<b>865</b>

Product declaration



# Claigan - Example Outputs

## Plastics Registry - Packaging



Representative Product	Pallet Overwrap	Misc. Parts	DEUCES - Acrylic Conformal Coating	DEUCES - Testing Equipment	DEUCES - Hand Held Multimeter	DEUCES - Centrifuge
# of Units sold in 2024	10,000	12,000	100,000	5,400	25,000	6,000
Product Weight (including packaging in g)	210	17	350	66,000	1,450	4,000
Plastic Composition			82.0%	6.9%	35.9%	28.6%
Method used	Specific component identification	Specific component identification	Specific component identification	Specific component identification	Specific component identification	Specific component identification
	Packaging	Packaging	Packaging	Packaging	Packaging	Packaging
	g	g	g	g	g	g
2811211 Polyethylene terephthalate (PET) resins	0	0	0	1	0	0
2811219 Other thermoplastic polyester resins	0	0	0	0	0	0
2811221 Low-density polyethylene (LDPE) resins	210	17	47	256	40	56
2811222 Linear low-density polyethylene (LLDPE) resins	0	0	0	0	0	0
2811223 High-density polyethylene (HDPE) resins	0	0	0	0	0	0
2811229 Other polyethylene resins	0	0	0	0	0	1
2811231 Polystyrene (PS) resins	0	0	0	600	100	213
2811291 Acrylonitrile-butadiene-styrene (ABS) resins	0	0	0	0	0	0
2811292 Polyvinyl chloride (PVC) resins	0	0	0	0	0	1
2811293 Polypropylene (PP) resins	0	0	0	0	0	0
2811294 Thermoplastic polyurethane (TPU) resins	0	0	0	0	0	0
2811295 Polyamide (PA, nylon) resins	0	0	0	0	0	0
2811299 All other thermoplastic resins, n.e.c.	0	0	155	0	0	6
2811411 Bio-based thermoplastic resins	0	0	0	0	0	0
2811412 Petroleum-based biodegradable thermoplastic resins	0	0	0	0	0	0
2811311 Phenolic (PF) resins	0	0	0	0	0	0
2811312 Urea formaldehyde (UF) resins	0	0	0	0	0	0
2811319 All other formaldehyde-based resins	0	0	0	0	0	0
2811391 Thermosetting unsaturated polyester (UPR) resins	0	0	0	0	0	0
2811392 Thermosetting polyurethane (PU) resins	0	0	0	0	0	0
2811399 Other thermosetting resins, n.e.c.	0	0	0	0	0	2
2811413 Bio-based thermoset resins	0	0	0	0	0	0
<b>Total Weight (Plastics)</b>	<b>210</b>	<b>17</b>	<b>202</b>	<b>857</b>	<b>140</b>	<b>279</b>

Adjustment for Packaging Depreciation

# Claigan - Example Outputs

## Plastics Registry - Submission Summary



Summary	Full Summary		
<b>Total # of Units sold in 2024</b>	136,400		
<b>Summation method used</b>	Average bill of materials method		
	<b>Product</b>	<b>Textiles</b>	<b>Packaging</b>
	<b>Kg</b>	<b>Kg</b>	<b>Kg</b>
2811211 Polyethylene terephthalate (PET) resins	585	0	6
2811219 Other thermoplastic polyester resins	531	0	3
2811221 Low-density polyethylene (LDPE) resins	162	0	9,722
2811222 Linear low-density polyethylene (LLDPE) resins	0	0	0
2811223 High-density polyethylene (HDPE) resins	0	0	0
2811229 Other polyethylene resins	498	0	3
2811231 Polystyrene (PS) resins	3,678	0	7,018
2811291 Acrylonitrile-butadiene-styrene (ABS) resins	985	0	0
2811292 Polyvinyl chloride (PVC) resins	4,437	0	5
2811293 Polypropylene (PP) resins	6,001	0	1
2811294 Thermoplastic polyurethane (TPU) resins	6	0	0
2811295 Polyamide (PA, nylon) resins	2,539	0	2
2811299 All other thermoplastic resins, n.e.c.	12,699	0	15,534
2811411 Bio-based thermoplastic resins	0	0	0
2811412 Petroleum-based biodegradable thermoplastic resins	0	0	0
2811311 Phenolic (PF) resins	18	0	0
2811312 Urea formaldehyde (UF) resins	0	0	0
2811319 All other formaldehyde-based resins	0	0	0
2811391 Thermosetting unsaturated polyester (UPR) resins	0	0	0
2811392 Thermosetting polyurethane (PU) resins	285	0	2
2811399 Other thermosetting resins, n.e.c.	2,180	0	10
2811413 Bio-based thermoset resins	0	0	0
<b>Total Weight (Plastics)</b>	<b>34,605</b>	<b>0</b>	<b>32,306</b>
<b>Gross Weight (Plastics) - Product and Packaging</b>	<b>66,911</b>		

Summary to be submitted

# Claigan 2025 Reporting



Claigan can  
Summarize data you have  
and  
Can generate data you do not have

- For each plastic resin (imported or manufactured)
  - Identity of each resin (ASML Variant Code)
  - Source of resin (virgin, recycled, etc..)
  - Total quantity of each resin (in kg)
  - Method used to quantify the above

Summary		Full Summary	
Total # of Units sold in 2024		6,000	
Summation method used:		Average bill of materials method	
	Product	Packaging	
	Kg	Kg	
281211	Polyethylene terephthalate (PET) resins	464	114
881819	Other thermoplastic polymer resins	16	6
281221	Low-density polyethylene (LDPE) resins	1,681	425
281222	Linear low-density polyethylene (LLDPE) resins	0	0
281223	High-density polyethylene (HDPE) resins	0	1
281229	Other polyethylene resins	20	4
281231	Polyethylene (PE) resins	127	17
281239	Acrylonitrile-butadiene-styrene (ABS) resins	0	0
281292	Polyvinyl chloride (PVC) resins	805	0
281293	Polypropylene (PP) resins	1,989	49
281294	Thermoplastic polyurethane (TPU) resins	0	0
281295	Polyamide (PA, nylon) resins	2,289	0
281299	All other thermoplastic resins, n.e.c.	433	0
281411	Bio-based thermoplastic resins	0	0
281412	Petroleum-based/biodegradable thermoplastic resins	0	0
281311	Phenolic (PF) resins	0	0
281312	Urea formaldehyde (UF) resins	0	0
281319	All other thermoplastic-based resins	0	0
281391	Thermosetting unsaturated polyester (UP) resins	0	0
281392	Thermosetting polyurethane (PU) resins	25	0
281399	Other thermosetting resins, n.e.c.	76	0
281413	Bio-based thermoset resins	0	0
Total Weight (Plastics)		7,735	611
Gross Weight (Plastics) - Product and Packaging		8,340	

Claigan can  
Generate and summarize the data

- For each plastic resin (imported or manufactured)
  - Identity of each resin (ASML Variant Code)
  - Source of resin (virgin, recycled, etc..)
  - Total quantity of each resin (in kg)
  - Method used to quantify the above

Summary		Full Summary	
Total # of Units sold in 2024		6,000	
Summation method used:		Average bill of materials method	
	Product	Packaging	
	Kg	Kg	
281211	Polyethylene terephthalate (PET) resins	464	114
881819	Other thermoplastic polymer resins	16	6
281221	Low-density polyethylene (LDPE) resins	1,681	425
281222	Linear low-density polyethylene (LLDPE) resins	0	0
281223	High-density polyethylene (HDPE) resins	0	1
281229	Other polyethylene resins	20	4
281231	Polyethylene (PE) resins	127	17
281239	Acrylonitrile-butadiene-styrene (ABS) resins	0	0
281292	Polyvinyl chloride (PVC) resins	805	0
281293	Polypropylene (PP) resins	1,989	49
281294	Thermoplastic polyurethane (TPU) resins	0	0
281295	Polyamide (PA, nylon) resins	2,289	0
281299	All other thermoplastic resins, n.e.c.	433	0
281411	Bio-based thermoplastic resins	0	0
281412	Petroleum-based/biodegradable thermoplastic resins	0	0
281311	Phenolic (PF) resins	0	0
281312	Urea formaldehyde (UF) resins	0	0
281319	All other thermoplastic-based resins	0	0
281391	Thermosetting unsaturated polyester (UP) resins	0	0
281392	Thermosetting polyurethane (PU) resins	25	0
281399	Other thermosetting resins, n.e.c.	76	0
281413	Bio-based thermoset resins	0	0
Total Weight (Plastics)		7,735	611
Gross Weight (Plastics) - Product and Packaging		8,340	

# Claigan Plastics Registry - EEE



## Simple Products

*Method 1 -  
Specific component  
identification method*

## Process

- Choose representative products
- Test major plastics
- Use Claigan models for dense assemblies
  - Circuit boards
  - Motors, pumps, fans, and displays
  - Cables
- Generate product data



## Complex Products

*Method 2 -  
Average Bill of Materials*

## Process

- Choose representative products
- Use **questionnaire** with client
- Use Claigan models for **all** assemblies
  - Large plastics
  - Circuit boards
  - Motors, pumps, fans, and displays
  - Cables
- Generate product data

# Large Product Questionnaire

Large Products Plastics Registry Questionnaire	
Product Name:	
Company Name:	
Total Product Weight (g):	

Large components	Plastic Type	Volume % plastic
Large Plastic 1		
Large Plastic 2		
Large Plastic 3		
Large Plastic 4		
Large Plastic 5		
Large Plastic 6		
Large Plastic 7		
Large Plastic 8		
Large Plastic 9		
Large Plastic 10		

AND

PREFERRED					
Mass (g)	Non-Plastic components included in weight (Y/N)	OR	Length (in)	Width (in)	Height (in)
		Send us the solidworks model and we will process it			

Assembly type	Quantity of Sizes:		
	Small (<2")	Medium (<4")	Large (>4")
Fans			
Internal Pumps			

\* Side length or diameter depending on shape

Motors	Small (<1")	Medium (<2")	Large (>2")
Quantities			

\* Measurement are by diameter

PREFERRED	
Circuit Boards	Total Mass

OR

Quantity of Rigid Circuit Boards Sizes:			Very Large Circuit Board > 70 sq in	
Small (<10 sq. in)	Med. (10 to 25 sq. in)	Lrg (25 to 50 sq. in)	Avg. Surf. Area	Quantity

\* Please do not include flexible boards or any boards under 1 sq. in

Display Screens	Units	Largest Screen Type		Second Largest Screen Type	
		Screen size	Screen Quantity	Screen size	Screen Quantity

\* Please use Diagonal size. Not all screens need to be filled out

Cable	% Cable /w Sheath

AND

Total Length	Units

OR

PREFERRED
Total Mass (g)

Large Plastic Tubing	Plastic

Total Length	Inner Diameter	Outer Diameter	Units

PREFERRED
Total Mass (g)

# Questionnaire Differences



- **Differences between similar products are mostly the large plastics**

Polycarbonate in outer housing

Product	Tablet 1		
Date Evaluated	11-July-2024		
Product Weight (including packaging in g)	663		
Plastic Composition	22.9%		
Method used	Specific component identification method		
	Product	%	Packaging
	g		g
2811211 Polyethylene terephthalate (PET) resins	11	1.60%	0
2811219 Other thermoplastic polyester resins	3	0.50%	0
2811221 Low-density polyethylene (LDPE) resins	0	0.00%	0
2811222 Linear low-density polyethylene (LLDPE) resins	0	0.00%	0
2811223 High-density polyethylene (HDPE) resins	1	0.10%	0
2811229 Other polyethylene resins	0	0.00%	0
2811231 Polystyrene (PS) resins	2	0.20%	0
2811291 Acrylonitrile-butadiene-styrene (ABS) resins	0	0.00%	0
2811292 Polyvinyl chloride (PVC) resins	0	0.00%	0
2811293 Polypropylene (PP) resins	0	0.00%	0
2811294 Thermoplastic polyurethane (TPU) resins	0	0.00%	0
2811295 Polyamide (PA, nylon) resins	3	0.40%	0
2811299 All other thermoplastic resins, n.e.c.	96	14.50%	0
2811411 Bio-based thermoplastic resins	0	0.00%	0
2811412 Petroleum-based biodegradable thermoplastic resins	0	0.00%	0
2811311 Phenolic (PF) resins	0	0.00%	0
2811312 Urea formaldehyde (UF) resins	0	0.00%	0
2811319 All other formaldehyde-based resins	0	0.00%	0
2811391 Thermosetting unsaturated polyester (UPR) resins	0	0.10%	0
2811392 Thermosetting polyurethane (PU) resins	5	0.70%	0
2811399 Other thermosetting resins, n.e.c.	31	4.70%	0
2811413 Bio-based thermoset resins	0	0.00%	0
<b>Total Weight (Plastics)</b>	<b>152</b>	<b>23%</b>	<b>0</b>

Product	Tablet 2		
Date Evaluated	30/7/24		
Product Weight (including packaging in g)	599		
Plastic Composition	34.9%		
Method used	Specific component identification method		
	Product	%	Packaging
	g		g
2811211 Polyethylene terephthalate (PET) resins	10	1.70%	0
2811219 Other thermoplastic polyester resins	4	0.60%	0
2811221 Low-density polyethylene (LDPE) resins	0	0.00%	0
2811222 Linear low-density polyethylene (LLDPE) resins	0	0.00%	0
2811223 High-density polyethylene (HDPE) resins	1	0.10%	0
2811229 Other polyethylene resins	0	0.00%	0
2811231 Polystyrene (PS) resins	1	0.20%	0
2811291 Acrylonitrile-butadiene-styrene (ABS) resins	0	0.00%	0
2811292 Polyvinyl chloride (PVC) resins	0	0.00%	0
2811293 Polypropylene (PP) resins	0	0.00%	0
2811294 Thermoplastic polyurethane (TPU) resins	0	0.00%	0
2811295 Polyamide (PA, nylon) resins	3	0.50%	0
2811299 All other thermoplastic resins, n.e.c.	159	26.50%	0
2811411 Bio-based thermoplastic resins	0	0.00%	0
2811412 Petroleum-based biodegradable thermoplastic resins	0	0.00%	0
2811311 Phenolic (PF) resins	0	0.00%	0
2811312 Urea formaldehyde (UF) resins	0	0.00%	0
2811319 All other formaldehyde-based resins	0	0.00%	0
2811391 Thermosetting unsaturated polyester (UPR) resins	0	0.10%	0
2811392 Thermosetting polyurethane (PU) resins	0	0.00%	0
2811399 Other thermosetting resins, n.e.c.	30	5.00%	0
2811413 Bio-based thermoset resins	0	0.00%	0
<b>Total Weight (Plastics)</b>	<b>209</b>	<b>35%</b>	<b>0</b>

# Claigan Plastics Registry - EEE

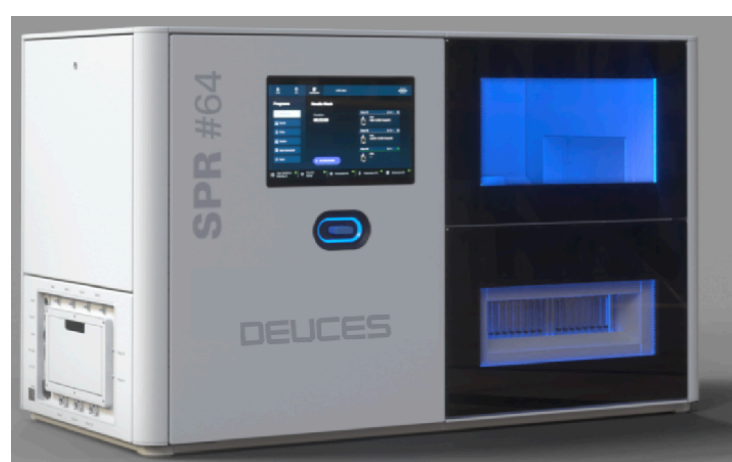


## Simple Products

*Method 1 -  
Specific component  
identification method*

## Advantages

- Most accurate
- Fastest
- Lowest effort by client



## Complex Products

*Method 2 -  
Average Bill of Materials*

## Advantages

- No product cost

Note - Claigan's cost is the same for both  
Customer can pick and choose for each product

# Claigan Plastics Registry Project

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**Phase 1**

**Client**

**Phase 2**

**Claigan**

**Phase 3**

**Client**

**Phase 4**

**Claigan**

**Plastics  
Registry**

Provide  
available data

Generate  
product  
declarations

Provide 2024  
CAN sales  
data

Create  
amalgamated  
submission

Provide product

Or

Complete  
questionnaire

And support  
submission

Summarize data you have  
and  
Generate data you don't have



# Representative Products

## Rule of Thumb - Year One

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- **Rule of Thumb**
  - For each product line
    - Choose 3 representative products from each product line
    - Use that data as representative for all related products
  - Keep records of data
  - Improve detail in year 2

# Claigan 2025 Reporting



Claigan can  
Summarize data you have  
and  
Can generate data you do not have

- For each plastic resin (imported or manufactured)
  - Identity of each resin (ASML Variant Code)
  - Source of resin (virgin, recycled, etc..)
  - Total quantity of each resin (in kg)
  - Method used to quantify the above

Summary		Full Summary	
Total # of Units sold in 2024		6,000	
Summation method used:		Average bill of materials method	
	Product	Packaging	
	Kg	Kg	
281211	Polyethylene terephthalate (PET) resins	464	114
881819	Other thermoplastic polymer resins	16	6
281221	Low-density polyethylene (LDPE) resins	1,681	425
281222	Linear low-density polyethylene (LLDPE) resins	0	0
281223	High-density polyethylene (HDPE) resins	0	1
281229	Other polyethylene resins	20	4
281231	Polyethylene (PE) resins	1,277	17
281239	Acrylonitrile-butadiene-styrene (ABS) resins	0	0
281292	Polyvinyl chloride (PVC) resins	805	0
281293	Polypropylene (PP) resins	1,989	49
281294	Thermoplastic polyurethane (TPU) resins	0	0
281295	Polyamide (PA, nylon) resins	2,289	0
281299	All other thermoplastic resins, n.e.c.	433	0
281411	Bio-based thermoplastic resins	0	0
281412	Petroleum-based/biodegradable thermoplastic resins	0	0
281311	Phenolic (PF) resins	0	0
281312	Urea formaldehyde (UF) resins	0	0
281319	All other formaldehyde-based resins	0	0
281391	Thermosetting unsaturated polyester (UP) resins	0	0
281392	Thermosetting polyurethane (PU) resins	25	0
281399	Other thermosetting resins, n.e.c.	76	0
281413	Bio-based thermoset resins	0	0
<b>Total Weight (Plastics)</b>		<b>7,735</b>	<b>611</b>
<b>Gross Weight (Plastics) - Product and Packaging</b>		<b>8,340</b>	

Claigan can  
Generate and summarize the data

- For each plastic resin (imported or manufactured)
  - Identity of each resin (ASML Variant Code)
  - Source of resin (virgin, recycled, etc..)
  - Total quantity of each resin (in kg)
  - Method used to quantify the above

Summary		Full Summary	
Total # of Units sold in 2024		6,000	
Summation method used:		Average bill of materials method	
	Product	Packaging	
	Kg	Kg	
281211	Polyethylene terephthalate (PET) resins	464	114
881819	Other thermoplastic polymer resins	16	6
281221	Low-density polyethylene (LDPE) resins	1,681	425
281222	Linear low-density polyethylene (LLDPE) resins	0	0
281223	High-density polyethylene (HDPE) resins	0	1
281229	Other polyethylene resins	20	4
281231	Polyethylene (PE) resins	1,277	17
281239	Acrylonitrile-butadiene-styrene (ABS) resins	0	0
281292	Polyvinyl chloride (PVC) resins	805	0
281293	Polypropylene (PP) resins	1,989	49
281294	Thermoplastic polyurethane (TPU) resins	0	0
281295	Polyamide (PA, nylon) resins	2,289	0
281299	All other thermoplastic resins, n.e.c.	433	0
281411	Bio-based thermoplastic resins	0	0
281412	Petroleum-based/biodegradable thermoplastic resins	0	0
281311	Phenolic (PF) resins	0	0
281312	Urea formaldehyde (UF) resins	0	0
281319	All other formaldehyde-based resins	0	0
281391	Thermosetting unsaturated polyester (UP) resins	0	0
281392	Thermosetting polyurethane (PU) resins	25	0
281399	Other thermosetting resins, n.e.c.	76	0
281413	Bio-based thermoset resins	0	0
<b>Total Weight (Plastics)</b>		<b>7,735</b>	<b>611</b>
<b>Gross Weight (Plastics) - Product and Packaging</b>		<b>8,340</b>	

# Claigan - Example Outputs

## Plastics Registry - Submission Summary



Summary	Full Summary		
<b>Total # of Units sold in 2024</b>	136,400		
<b>Summation method used</b>	Average bill of materials method		
	<b>Product</b>	<b>Textiles</b>	<b>Packaging</b>
	<b>Kg</b>	<b>Kg</b>	<b>Kg</b>
2811211 Polyethylene terephthalate (PET) resins	585	0	6
2811219 Other thermoplastic polyester resins	531	0	3
2811221 Low-density polyethylene (LDPE) resins	162	0	9,722
2811222 Linear low-density polyethylene (LLDPE) resins	0	0	0
2811223 High-density polyethylene (HDPE) resins	0	0	0
2811229 Other polyethylene resins	498	0	3
2811231 Polystyrene (PS) resins	3,678	0	7,018
2811291 Acrylonitrile-butadiene-styrene (ABS) resins	985	0	0
2811292 Polyvinyl chloride (PVC) resins	4,437	0	5
2811293 Polypropylene (PP) resins	6,001	0	1
2811294 Thermoplastic polyurethane (TPU) resins	6	0	0
2811295 Polyamide (PA, nylon) resins	2,539	0	2
2811299 All other thermoplastic resins, n.e.c.	12,699	0	15,534
2811411 Bio-based thermoplastic resins	0	0	0
2811412 Petroleum-based biodegradable thermoplastic resins	0	0	0
2811311 Phenolic (PF) resins	18	0	0
2811312 Urea formaldehyde (UF) resins	0	0	0
2811319 All other formaldehyde-based resins	0	0	0
2811391 Thermosetting unsaturated polyester (UPR) resins	0	0	0
2811392 Thermosetting polyurethane (PU) resins	285	0	2
2811399 Other thermosetting resins, n.e.c.	2,180	0	10
2811413 Bio-based thermoset resins	0	0	0
<b>Total Weight (Plastics)</b>	<b>34,605</b>	<b>0</b>	<b>32,306</b>
<b>Gross Weight (Plastics) - Product and Packaging</b>	<b>66,911</b>		

Summary to be submitted

# NOTE - PFAS Reporting in Canada

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- **Released July 27 2024**
  - Due [January 29 2025](#)
  
- **Applies to all imported of products**
  - (including articles)
  - With over 100 kg of PFAS imported per year.
  
- **Includes**
  - All products including professional, industrial, and medical

		C462	Automotive, aircraft and transportation	Substances contained in automobiles, aircraft and other types of transportation, or used in their manufacture.
C205	Electrical and electronics	Substances contained in electrical and electronic products, mixtures or manufactured items.		
		C565	Medical devices	Substances contained in products, mixtures or manufactured items used for either the diagnosis, treatment, mitigation or prevention of a disease, disorder, or an abnormal physical state; or those used in restoring, correcting or modifying organic functions in humans or animals.

# Claigan Plastics Registry Project

**Phase 1**  
Client

**Phase 2**  
Claigan

**Phase 3**  
Client

**Phase 4**  
Claigan

**Plastics  
Registry**

Provide  
available data

Generate  
product  
declarations

Provide 2024  
CAN sales  
data

Create  
amalgamated  
submission

Provide product  
Or  
Complete  
questionnaire

Summarize data you have  
and  
Generate data you don't have

And support  
submission

**Q&A**

[info@claigan.com](mailto:info@claigan.com)

[Claigan FAQ](#)