

Q-rPS®

NEW

Polystyrene with Post-Consumer Recycled Content

25% certified
postconsumer
recycled content



25% carbon footprint
reduction compared
to virgin resin

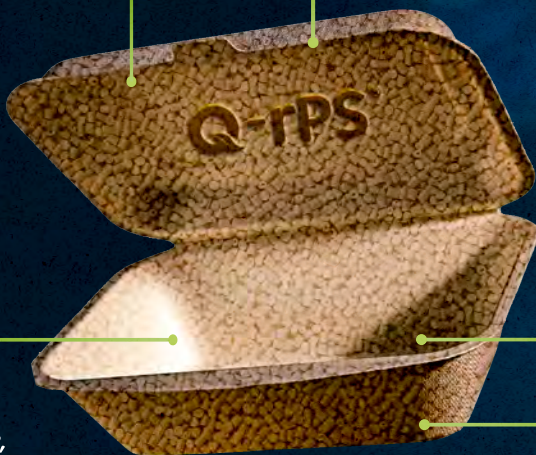
CADIS



FDA approved
for food contact
applications

Certified quality
and performance,
similar to a **virgin resin**

Less than 5 cents
of impact on the end user



**AVAILABLE
NOW!**

 **Resirene**
Custom Solutions, **Solid Partnerships**

 **DESC**

Commercial Grades Available

Name	Q-rPS® 25 EX	Q-rPS® 25 IN	Q-rPS® 25 HI
PS grade	GPPS	GPPS	HIPS
Melt Flow Rate (200° C/5.0 kg)	2.4	8.5	3.0
Break Elongation (%)	3.0	1.6	52.0
Processability	Sheet Extrusion, Foaming, OPS	Injection Molding	Extrusion & Thermoforming
Applications	Lids, trays & takeout containers	Cups, cutlery	Lids, cups, cutlery

r-Flex, our advanced polystyrene recycling process

Features:

- Use and valorization of postconsumer Polystyrene (PSpc)
- Physicochemical recycling based on solvents and polymerization

Advantages:

- Ability to remove contaminants
- Control of mechanical properties independent of the quality of the PSpc
- Quality and performance similar to virgin resin
- Reduced environmental footprint
- Helps comply with multiple environmental regulations
(General Law on Circular Economy)

**AVAILABLE
NOW!**

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 www.q-rps.eco/en/
[www.resirene.com.mx/en/
blue360.eco](http://www.resirene.com.mx/en/blue360.eco)



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 **Q-rPS®**

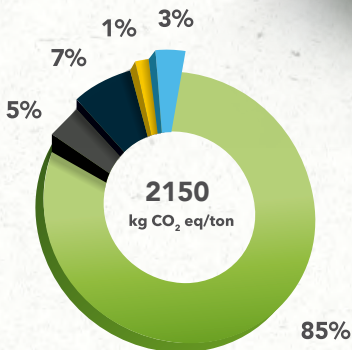
25% Certified Postconsumer Recycled content

- SCS Recycled Content **Certification** independently verifies the percentage of a product made from recycled content or recycled materials.
- SCS is endorsed by the **US Association of Plastic Recyclers (APR)**.



MINIMUM 25% RECYCLED CONTENT
POST-CONSUMER

Environmental Benefits



Carbon Footprint (kg CO₂ eq)

- Raw materials
- Production
- Raw materials transportation & packaging
- Packaging
- Distribution

Carbon Footprint reduction by 25%

Impact Assessment Method:

ISO 14044, Product Category Classification: UN CPC 347 V 4.0.0
Plastics in primary forms

Declared Unit:

1 kg of Q-rPS® polystyrene resin with postconsumer recycled content, including its packaging, produced by Resirene at the Tlaxcala, Mexico plant

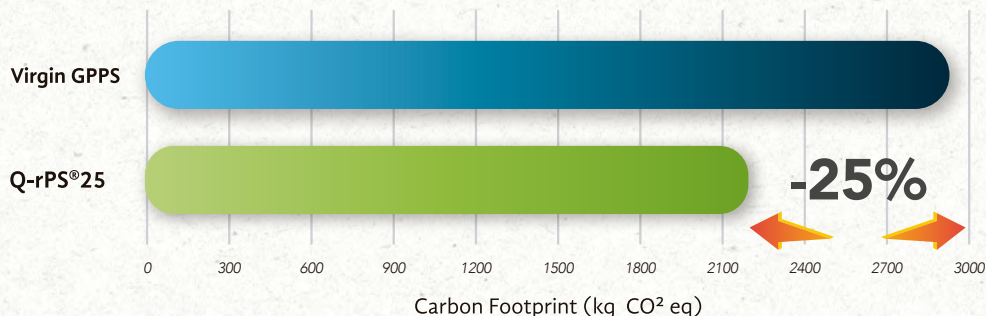
Reference Year:

2024

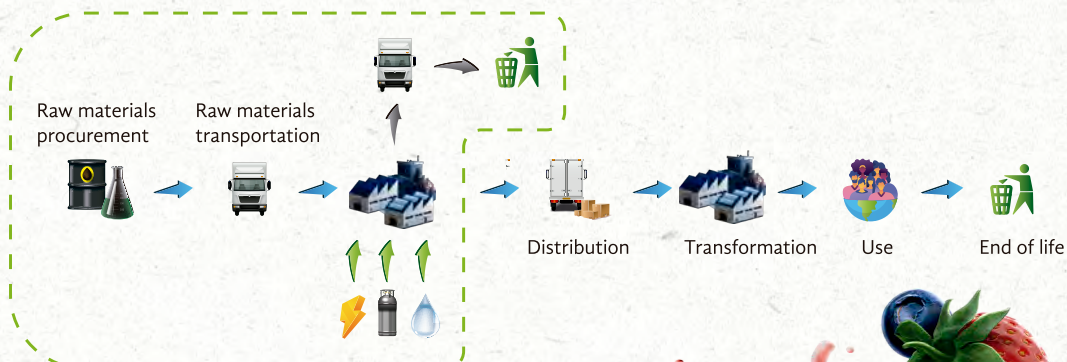
Scope:

Cradle to gate

Life Cycle Analysis



LCA Scope



Applications

- Our high-quality base material is versatile and can be used in multiple applications.
- We offer two specialized grades, one for extrusion and the other for injection molding.
- Moreover, the material is perfect for foamed applications.
- FDA Approved:** 21 CFR 177.1640, so it can be used for packaging and products in direct contact with food, as well as for home appliances, among others.

