

CHEMISTRY THAT MATTERS™



ISCC+ CERTIFIED RENEWABLE BIO-BASED ULTEM™ RESINS

SABIC'S SPECIALTIES BUSINESS



ISCC+ CERTIFIED RENEWABLE BIO-BASED ULTEM™ RESINS

A new portfolio of bio-based ULTEM™ resins that deliver a lower carbon footprint while offering exactly the same high performance and processability as incumbent ULTEM materials.

These breakthrough polyetherimide (PEI) materials are the first certified renewable high-temperature, amorphous resins available in the industry for potential use in challenging applications in consumer electronics, aerospace, automotive and other industries.



SABIC SUSTAINABILITY

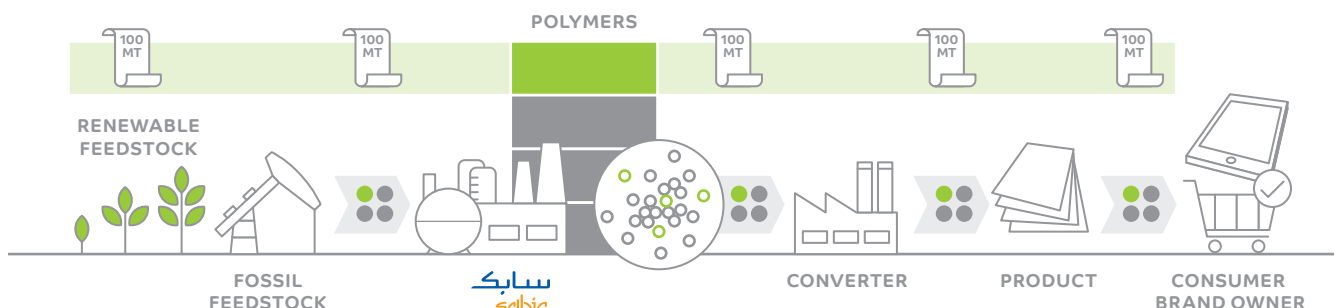
CIRCULAR ECONOMY inspires SABIC to adapt our processes to the use of renewable and recycled feedstock, and to create durable, recyclable product design solutions for our customers.



BIO-BASED FEEDSTOCK

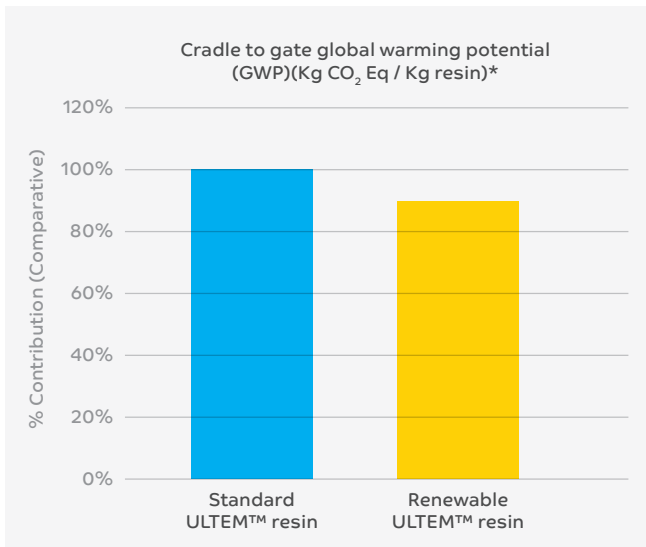
- Replacing fossil-based feedstock
- Second generation renewable feedstock
- Animal and palm oil free
- Derived from waste or residue, such as crude tall oil
- ISCC+ certified value chains

SABIC ISCC+ CERTIFIED RENEWABLE ULTEM™ RESIN SOLUTIONS



For every **100kg** of this ULTEM™ resin, **25.5 kg** of oil-based materials have been replaced by bio-based materials, based on mass balance approach.

LIFE CYCLE ASSESSMENT (LCA)



COMPARED WITH STANDARD ULTEM™ RESIN, UP TO:



POTENTIAL MARKETS AND APPLICATIONS:



Consumer Electronics

- Wearables
- Mobile devices



Automotive

- Connectors
- Sensors
- Valves



Healthcare

- Surgical devices
- Sterilization trays



Aerospace Interiors

- Personal service units
- Panels and trim



Electrical/Electronics

- 5G networking infrastructure
- Connectors

* Cradle to Gate internal life cycle assessment (LCA) conducted by following the general principles of LCA according to the ISO 14040/14044¹ guidelines; pending external critical review.

¹ ISO 14040:2006 Environmental management. Life cycle assessment, Principles and Framework: <https://www.iso.org/standard/37456.html>

MATERIAL PERFORMANCE

With the same reliable mechanical properties as their fossil-based counterparts, bio-based ULTEM resins can be considered as an alternative material to traditional ULTEM resins or sulfone polymers such as PSU, PESU and PPSU.

- Long-term high heat capability
- Dimensional stability / tight tolerances
- Strength and modulus at high temperatures
- Inherent flame resistance
- Low smoke evolution and toxicity
- Hydrolytic and chemical stability



CONTACT INFORMATION



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