

AN EVEN LIGHTER FOOTPRINT

Cirql® rTPU50™ is a patented, scalable and fully recyclable TPU midsole solution made with 50% recycled material from post-industrial waste. Using even more recycled content than the previous generation Cirql® rTPU30™, Cirql rTPU50 expands opportunities for footwear brands to reach climate and sustainability goals for their products.

Based on the patented, chemical-free foaming for which Cirql is known, Cirql rTPU50 uses an injection-molding manufacturing process that can be deployed by any factory with supercritical foaming capabilities. Cirql rTPU50 is for every brand partner and stakeholder seeking to lower their overall environmental impact by increasing the usage of recycled content in their supply chains and reducing usage of virgin and petroleum-based materials.

PRODUCT SUMMARY

For Cirql rTPU50, our priority was achieving an even higher percentage of recycled content, as well as a softer feel than Cirql rTPU30. TPU is a trusted material for comfort footwear. It displays excellent performance in cushioning, flexibility, and ease of moldability, as well as superior resistance to abrasions, scuffing, oils and grease. Also, recycled TPU is one of the most commonly available recycled polymers. All of these qualities combined to make TPU an excellent material choice for Cirql rTPU50.

APPLICATION

Cirql rTPU50 is the newest, patented, midsole material from Cirql. Made for comfort applications from 50% recycled TPU from post-industrial waste and 50% virgin TPU, Cirql rTPU50 is crafted through supercritical foaming. Delivering comparable performance qualities as TPU—and a softer feel than Cirql rTPU30—while also reducing the use of virgin materials, Cirql rTPU50 will be initially available in white with additional color options to come.

Formulation

50% Recycled TPU/50% Virgin TPU



50% Post-industrial recycled TPU
50% Virgin TPU

Density:
0.19-0.23g/cm³

Hardness-Skin:
40-55 Asker C

Hardness-Core:
28-43 Asker C

Tensile Strength:
1.3 MPa

Elongation:
363 %

Resilience:
42-46 %

Compression Set:
42 %

Range measured in typical midsoles depending on design and geometry

Colors Available:

Cirql rTPU50 will be initially available in natural with additional standard color ways available: blue, gray, orange, and silver

Global Recycled Standard:

Cirql rTPU50 is made with material that meets the globally recognized standards for GRS certification.

Contact your Cirql Representative regarding details and specifications.

