SUSTAINABLE
Product Development

Green PVC

IMPROVEMENT SCENARIO: GREEN PVC

Realize significant CO2 emissions reductions by selecting greener PVC sealants. By focusing on green raw materials – which hold the greatest potential for CO2 reduction – Henkel significantly reduces the amount of CO2 generated in the PVC manufacturing process. This offers a more sustainable solution that delivers the same reliable performance our customers expect.

CUSTOMER SITUATION

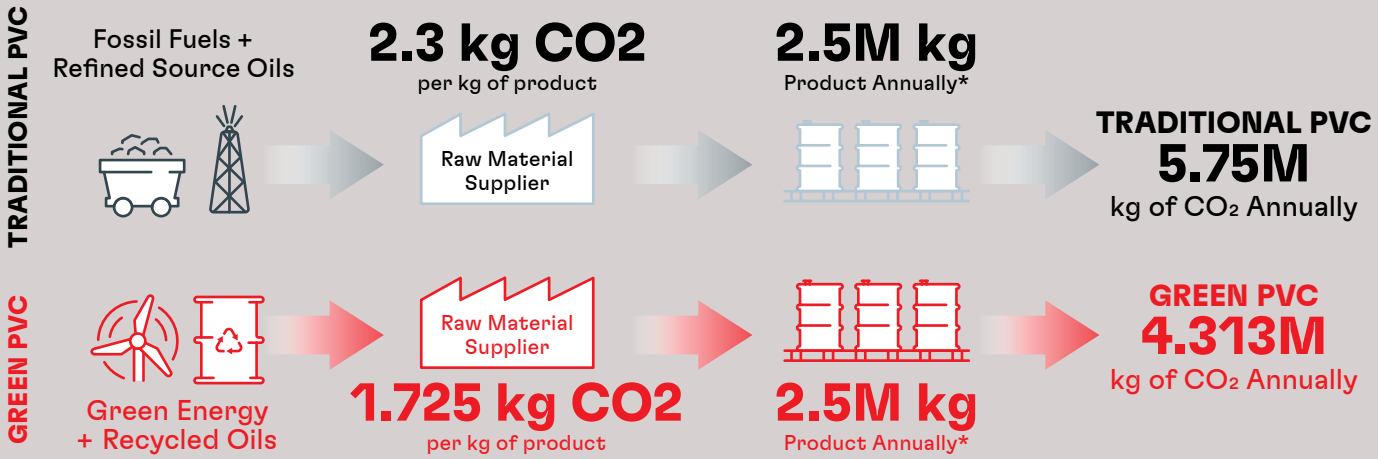
As they seek to reduce their own CO2 emissions impact, auto manufacturers also intend to lower the carbon footprint of products they source from trusted suppliers. They are looking to Henkel to develop product options that are already delivering sustainability benefits even before arriving at their plant.

RECOMMENDED SOLUTION

Henkel identified raw materials for producing PVC sealers as a potential area for OEMs to introduce greener technologies into their vehicle designs. By shifting their suppliers to renewable energy and recycled oils for PVC polymer and plasticizer production, Henkel is able to reduce CO2 emissions in our PVC coating materials by 25%. Even larger reductions may be possible in the future as Henkel continues intensive research using alternative raw materials made from renewable sources.

PRODUCTION SCENARIO:

REDUCED-CO_2 GREEN PVC VS. TRADITIONAL PVC



*Based on customer volume of 10 kg PVC per vehicle and 250,000 vehicles per year.

25%

IN THIS SCENARIO, GREEN-SOURCED PVC REDUCED CO_2 EMISSIONS BY 25%

Henkel

OUR GOAL

At Henkel, our goal is to improve sustainability across our products' entire value chain. That includes a 30% reduction in carbon footprint for our raw materials by 2030. We are innovating to enhance the sustainability of our adhesive solutions. And we aim to further reduce our environmental impact by pursuing responsible solutions for transporting our raw materials and finished products.

GREEN PVC

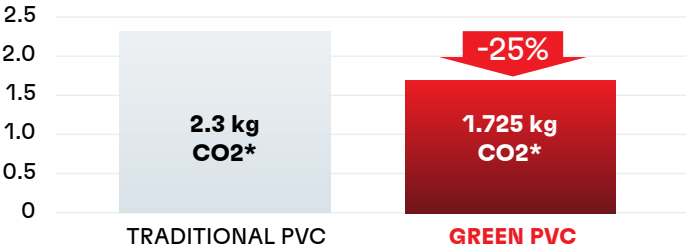
Raw Materials | Transportation | Production | Processing | Consumer Use | Disposal

CRADLE-TO-GATE **GATE-TO-GRAVE**

SUSTAINABILITY OPPORTUNITY: GREEN PVC

Henkel research and innovation make us the one to watch.
At Henkel, our green PVC product development efforts combine renewable electricity and recycled oils to achieve an impressive 25% CO2 reduction at the production source. For future PVC products, Henkel is researching even greater CO2 and VOC reductions in raw materials as well as advancements in lower-temperature curing. As the future of this and other green products continues to unfold, OEMs can look to Henkel to propose solutions that can move their sustainability efforts forward.

REDUCED CO_2 EMISSIONS



Analysis shows 25% reduced CO2 emissions at the production source using green energy and recycled oils.

*Per kg of finished product.

EQUIVALENT PROCESSING AND PERFORMANCE

✓ Cure Time	✓ Density
✓ NVH	✓ Solids Content
✓ Application Speed	✓ Tensile Strength
✓ Adhesion	✓ Elongation

Green PVC meets all traditional PVC sealer performance requirements.

LEARN MORE

henkel.com/sustainability

Henkel