

Introducing new hard/soft material combinations for 2K applications

Making a material selection is a complicated task. There are many properties to balance, and when adding sustainability, the choice is even more difficult. Selecting two materials for a 2K part is not doubling the difficulty; it is squared. To help with this decision, HEXPOL TPE and Polykemi has teamed up to enable the best combination possible based on properties and targets.

To demonstrate the possibilities in reducing the product carbon footprint, increasing recyclability and optimizing properties and adhesion, Polykemi's Materialsmart® meets HEXPOL TPE's Sustainable Materials Lab to create tested solutions. Making an informed choice is key when decarbonizing, and making the consequences clear is the first step on this journey.

HEXPOL TPE and Polykemi have done substantial work in the field of sustainability, where they can calculate the GWP of their materials. Both companies work with virgin, recycled, and bio feedstocks enabling combinations with the lowest carbon footprint and highest recyclability possible. The extensive labs also ensure durability and quality.

Both HEXPOL TPE and Polykemi can tailor the materials' properties according to the need of the component. With our long cooperation, we can also make sure the materials stick together over time, just as we as companies have done. To bring real change we need to collaborate!





OUR MATERIAL COMBINATIONS

-49%

CO2-e

POLYabs ABS N00

Fossil-based ABS Full Colorability

Dryflex A2 660602

Fossil based TPE Full Colorability

Limited Recyclability

NUMBER OF TEST PIECES

per kilo CO₂-e:

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8

POLYfill PP HBK30030

Fossil-based PP Full Colorability

Dryflex 660600S

Fossil based TPE Full Colorability

Full Recyclability

NUMBER OF TEST PIECES per kilo CO,-e:

15

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REZYcom ABS RN00

Mechanically recycled ABS Limited Colorability

Dryflex X A2 660602

Bio-circular TPE Full Colorability

Bio-attributed via mass balance

2nd generation feedstock

Limited Recyclability

NUMBER OF TEST PIECES per kilo CO,-e:

18

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REZYcom PP RBK1501515

Mechanically recycled PP Limited Colorability

Dryflex X 660600S

Bio-circular TPE

Full Colorability

Bio-attributed via mass balance 2nd generation feedstock

Full Recyclability

NUMBER OF TEST PIECES per kilo CO,-e:

34

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