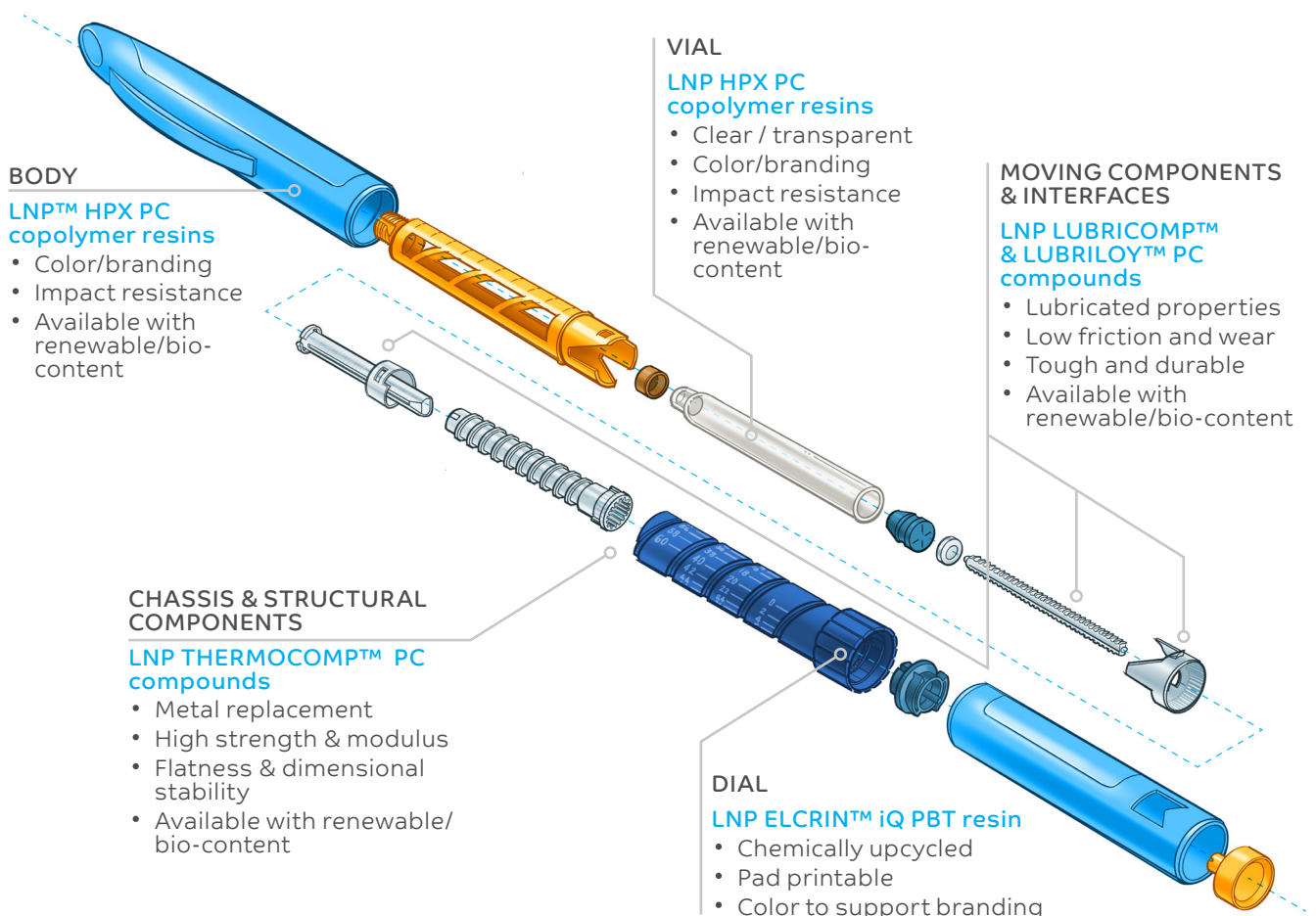


## MATERIAL TECHNOLOGY SOLUTIONS TO SUPPORT DRUG DELIVERY DEVICES

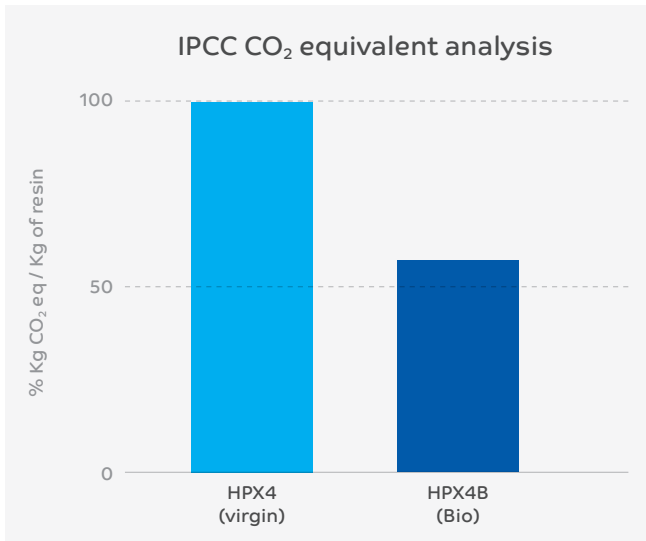
Drug pens and autoinjectors are used for the subcutaneous delivery of biopharmaceuticals and offer patients the ability to self-administer medication. In recent years, significant developments in device design have helped to improve patient experience, compliance and sustainability. Following the trend of convergence with consumer electronics, medical device advancements include enabling enhanced usability and wireless connectivity. Additionally, streamlining design & manufacturing can help control costs and increase productivity.

SABIC's Specialties business offers a wide range of potential solutions for healthcare including structural and functional biocompatible materials, FDA food compliant color packages and sustainable options with renewable content. We support our materials with value-added services, including design support, mold-flow analysis, testing and predictive engineering capabilities, which are available for each step of your application development process.



## STANDARD HPX4 COPOLYMER VS. RENEWABLE ELCRINT™ HPX4B COPOLYMER\*

## RENEWABLE COPOLYMERS COMPARED WITH CONVENTIONAL COPOLYMERS



Same product, same properties:  
Potential drop in solution with no tooling changes



Better carbon/energy footprint



Equivalent color space



Requalification may not be required

### COMPARED WITH STANDARD HPX RESINS:



\* Internal LCA Analysis: IPCC 2013 GWP 100A V1.03 calculated following the general principles of life cycle assessment (LCA) according to the ISO 14040 guideline; The carbon footprint estimate is for the grade when manufactured in Benoi, Singapore. Background data was selected from the latest Ecoinvent database V3.6.

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