



Novel, Propellant-Free Soft Mist Respiratory Inhaler

Challenge

Boehringer Ingelheim needed to overhaul the materials used within their Respimat® inhaler, to **move away from metals**. Key to this was reducing the manufacturing costs per unit from machining. They were seeking a solution that enabled **more design freedom and easier processing through molding for mass production for very small parts**.

Solution

VICTREX™ PEEK selected as material of choice for the newly designed **Respimat® re-usable inhaler dosing chamber**, because of its:

- Very good dimensional stability
- Outstanding chemical resistance
- Purity (does not contain any additives or processing agents)
- Very low level of leachable or extractables, and therefore no interactions with the drug



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MEDICAL DRUG DELIVERY DEVICES

Changing what's possible in everyday drug delivery

*Discover a design freedom that enables
precise & easy daily treatment*

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Our Victrex polymers are ideal for drug delivery device components.

For years, we've pioneered PEEK's medical applications and have developed a deep understanding of your needs and challenges.

PEEK's multi-faceted material performance is what makes it stand apart from the alternatives. In the face of multiple complex engineering requirements, it thrives.

And the benefits include digital connectivity, drug delivery performance, user safety, convenience and comfort all in one.

Let us help you take drug delivery to the next level.

Let's make change.











**VIEW
PROPERTIES
& BENEFITS**





Multiple properties. Multiple benefits.

A unique combination of VICTREX™ PEEK properties for drug delivery device engineering :

-  Safe in contact with the human body
-  Safe in contact with drugs
-  Lightweight & durable
-  Electrical performance
-  Withstands high temperatures
-  Longevity & performance over time
-  No moisture absorption
-  Easy processing & assembly



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