

Engineering Plastics and Sustainability

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external



Durable Applications

- ▶ High demand for light-weighting, energy efficiency and product life-cycle
- ▶ Significantly increased requests for recycled and renewable content in products

Industrial



Scissor foot key cap structure design
Comfortable feel, fast rebound speed, low delay



Personal Care



Large & Small Appliances



Medical



Furniture



Automotive



Key focus areas



Bio-based



Recycled content

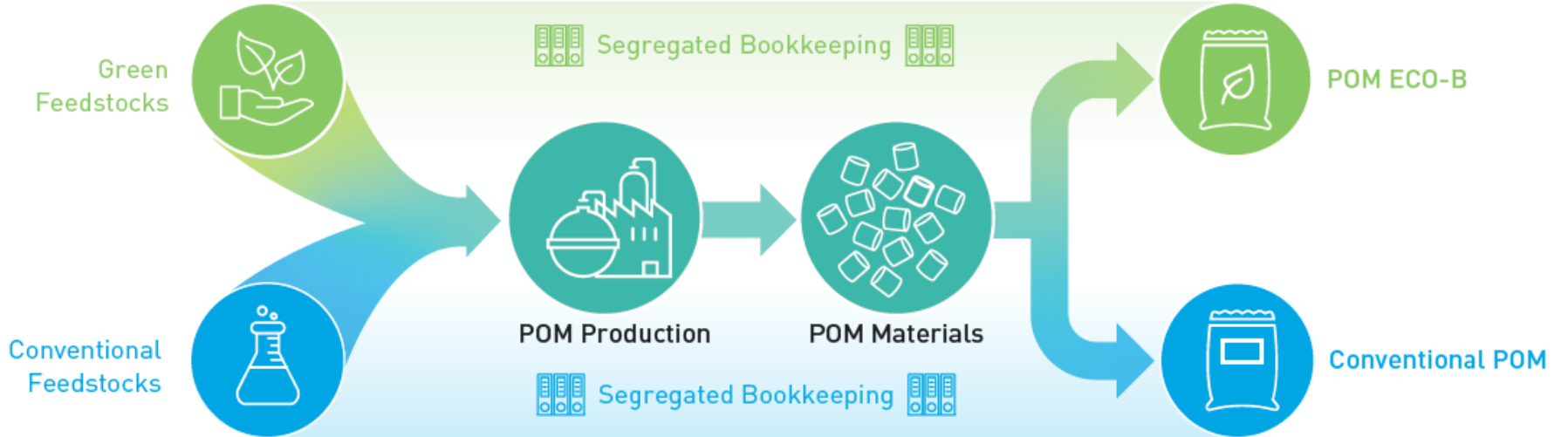
Post industrial, post consumer



End of Life

Management

Case 1: Bio-based Engineering Polymers by Mass-Balance Approach



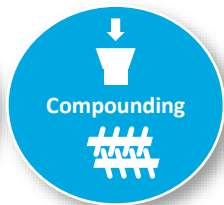
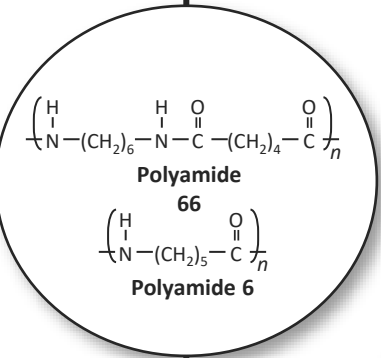
Ypsomate Zero,
industry's first
carbon neutral drug
delivery device
made with POM
ECO-B



Case 2: Recycled Polyamides



Post-Consumer Waste



Post industrial Waste

ECOMID®



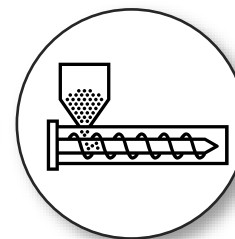
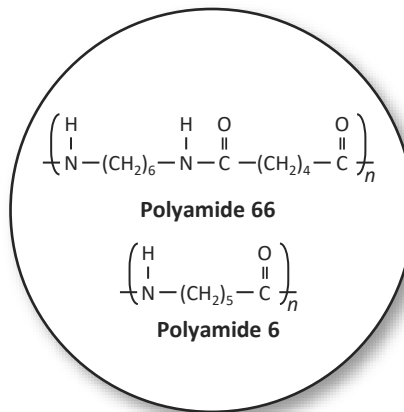
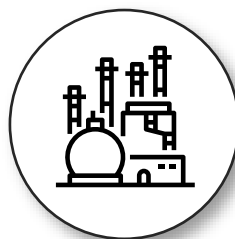
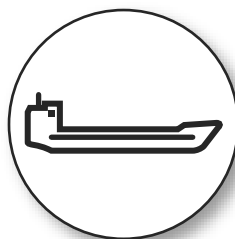
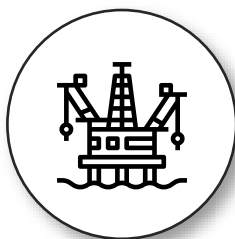
Consistency: e.g Charpy Impact Strength

PRIME PA66 GF30

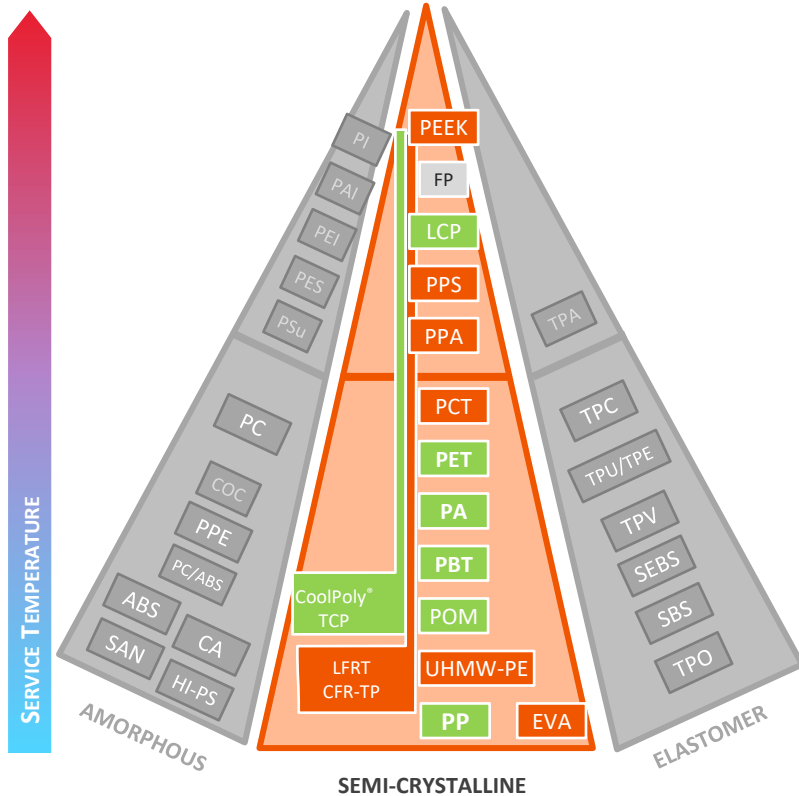
ECOMID® PA66 ARX GF30

Case 2: Recycled Polyamides – carbon footprint benefits

CO₂



Celanese Engineered Material Portfolio with Sustainable Product Offering



<p>Hostaform[®] POM, Celcon[®] POM</p>	<p>GUR[®] UHMW-PE</p>	<p>Celanex[®] PBT, Pibiter[®] PBT, Vandar[®] PBT</p>
<p>Polyamide Compounds</p>	<p>Polypropylene Compounds</p>	<p>Impet[®] PET</p>
<p>Forprene[®] TPV</p>	<p>Laprene[®] SEBS</p>	<p>Pibiflex[®] TPC, Riteflex[®] TPC</p>
<p>Fortron[®] PPS</p>	<p>Vectra[®] LCP, Zenite[®] LCP</p>	<p>Celapex[®] PEEK</p>

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