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Moving the needle on plastic waste is no small feat, but petrochemical manufacturers are revolutionizing what's possible. Advanced recycling utilizes advanced processes that break plastic waste all the way down to its original chemical components - expanding the types of plastics that can be recycled, and creating a higher-quality feedstock. Check out our infographic below to learn the difference between mechanical recycling and advanced recycling.

# mechanical recycling

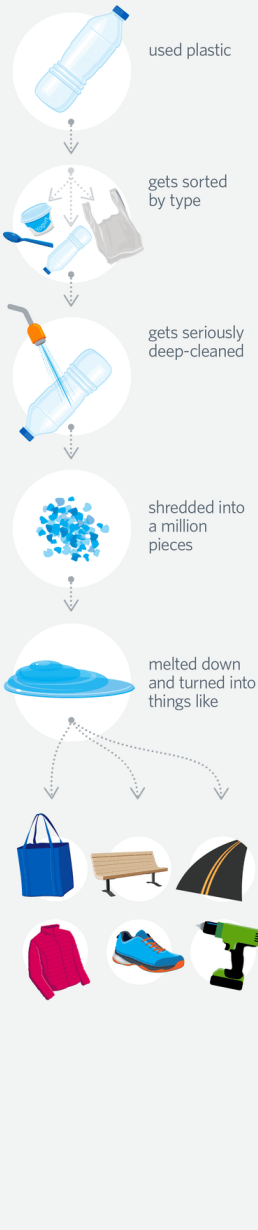
vs.

# advanced recycling

melts & re-molds discarded plastic to form new products

**OPPORTUNITIES**  
easier to process

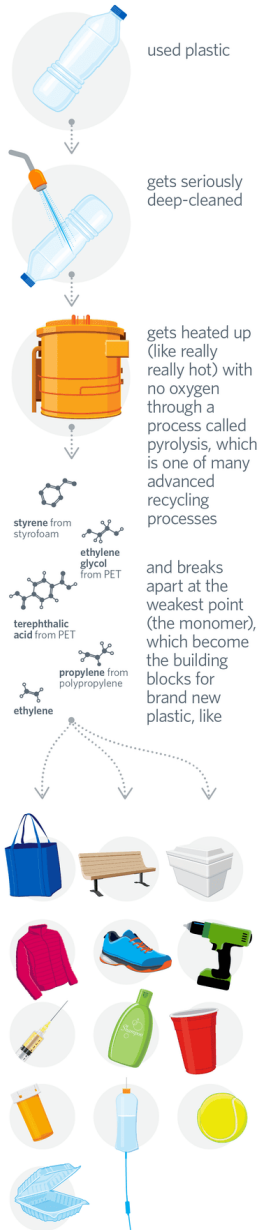
**CONSIDERATIONS**  
limited types of used plastic can be recycled. degradation of polymers



uses heat and/or chemistry to break down polymers to its building blocks or feedstocks for new plastic

**OPPORTUNITIES**  
wider variety of plastics can be recovered and recycled into high-performance applications

**CONSIDERATIONS**  
more complex process and requires high energy



The plastic waste crisis **requires multiple solutions.** Mechanical and advanced recycling **work together as a complimentary approach** to tackling plastic waste in a meaningful and effective way.

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