Moving the needle on plastic waste is no small feat, but petrochemical manufacturers are revolutionizing what's possible. Advanced recycling technologies utilize 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 technologies.

mechanical recycling 😘

advanced recycling technologies

melts & re-molds discarded plastic to form new products

easier to process

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













use heat and/or chemistry to break down polymers to their building blocks or feedstocks for new plastic

wider variety of plastics can be repeatedly recycled into high-performance applications

more complex process and





gets heated up (like really really hot) with no oxygen through a process called pyrolysis, which is one of many advanced recycling

into a million pieces









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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