

## Challenge – Industry 4.0

### Lubrizol Engineered Polymers



“Valuable applications from post-industrial thermoplastic elastomer waste”

With increased awareness about environmental impact of plastic, not much thought is given to post-industrial plastic waste. The sources of post-industrial plastic come from a wide variety of resins. One of the advantages of thermoplastics waste in comparison to thermoset materials is its recyclability and its potential to be reused. Another advantage of post-industrial waste is that it contains lower amounts of pollutants and can be easily collected from the source compared to post-consumer waste.

The objective of this challenge is to find valuable applications for post-industrial thermoplastic polyurethane (TPU) elastomer waste. TPU has unique properties that offer both superior performance and processing flexibility, and it is especially suitable for dynamic applications where mechanical strength and abrasion resistance are required. Due to these properties — which are still preserved in a certain degree in the post-production waste— we expect to be able to find valuable applications to give a second and economically-viable life to TPU waste.

If you want to do your part to helping clean up the earth and being environmentally-friendly, help us find a new life for TPU post-industrial waste!

### About Lubrizol Engineered Polymers:

With more than 60 years of experience and a worldwide network that includes formulation design, manufacturing, R&D and cutting-edge technologies, Lubrizol Engineered Polymers offers one of the broadest portfolios of engineered polymers available today including resins that are bio-based\*, recyclable\*\*, light stable, flame retardant, adhesive, chemically resistant, optically clear and fast cycling. Our technology crosses many industries and applications, including surface protection, power and fluid systems, sports and recreation, wearable devices, electronics and automotive. For more information, contact [sabine.runge@secpho.org](mailto:sabine.runge@secpho.org).

*\*Bio-based content as certified in accordance with ASTM D-6866.*

*\*\*Recyclability is based on access to a readily available standard recycling program that supports such materials.*