

ESTANE® RNW TPU FOR WIRE AND CABLE



OVERVIEW

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**, flame retardant, chemically resistant, and light stable. Recently, our Engineered Polymers expert technicians and our sustainability team have pooled efforts to develop a sustainable portfolio that can withstand the harsh conditions cables are subject to, and still meet current market needs and compliance requirements of widely used industry standards.

Lubrizol has an extensive portfolio of thermoplastic polyurethane (TPU) solutions which are widely used in wire and cable commercialized as ESTANE® ZHF TPU. These polymers make it easy to produce cable jacketing with an optimum design, while being halogen-free.

ESTANE® RNW specialty TPU with the same performance as our ESTANE® TPU resin, is the most recent development by Lubrizol Engineered Polymers. It is a mass balanced polymer solution with bio carbon attribution.

We are joining two of our unique technologies: ESTANE® RNW and ESTANE® ZHF to provide a solution for wire and cable manufacturers who are searching for a sustainable non-halogenated flame retardant (NHFR) alternative.



APPLICATIONS

- Industrial
- Automotive
- Mass Transit
- Building/Construction
- Telecommunication
- Alternative Energy
- Oil & Gas
- Military
- Mining
- Marine



Lubrizol

Engineered Polymers

**NON-HALOGENATED
FLAME RETARDANCY**

**DURABLE, FLEXIBLE,
HIGH-QUALITY PRODUCT**

**MEETS REGULATORY
REQUIREMENTS OF KEY
INDUSTRY STANDARDS*****

SUSTAINABLE ALTERNATIVE

BENEFITS OF ESTANE RNW ZHF TPU

ESTANE® RNW TPU meets the growing sustainability requirements of selected markets, like wire and cable, with innovative polymers that have significantly lower carbon footprint. ESTANE® RNW ZHF TPU delivers high-performance attributes like high mechanical and hydrolysis resistance to the end product, like our standard ESTANE® solutions.

Lubrizol has focused on using NHFR technology to expand the broad offering for cables, and extend the durability and service life of valuable cable systems, catering for thick and thin cables. The final product has a very good tear resistance and excellent abrasion while withstanding high temperatures. Given ESTANE® TPU's nature to perform well in different environments, Lubrizol's ESTANE® RNW ZHF TPU portfolio has been developed considering the latest trends for more sustainable materials that will contribute to a lower carbon footprint whilst keeping up high standards of performance.

Lubrizol is committed to applying the safe and sustainable by Design (SSBD) principle in all what we do benefiting customers, employees and communities. We are open to new opportunities and collaborating with our customers and partners to develop more sustainable solutions. Lubrizol Engineered Polymers uses sustainability as a strategic capability to build a differentiated best-in-class specialty chemical business.



**ESTANE®
RNW TPU**

* 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. Products may not be available in all areas.

***For the latest regulatory compliance of our products, please consult our regulatory experts.

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Lubrizol

Engineered Polymers



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