



OVERVIEW

Backed by more than 30 years of experience in surface protection applications, **ESTANE® thermoplastic polyurethane (TPU)** provides exceptional performance with transparency after long-term exposure to the elements, such as UV light, moisture, physical abuses, chemicals and more. **ESTANE® TPU** maintains the beauty of surfaces in the most demanding applications!



DISCOVER AN ADVANCED LEVEL OF PROTECTION

Peace of mind that it lasts.



Weathering Resistance

Resistant to the effects of environmental exposure, maintaining aesthetic and physical properties after long-term outdoor exposure.



Materials Compatibility

Compatible with a wide range of dissimilar materials for integrating solutions (such as substrates, adhesives, inks and coatings).



Advanced Physical Properties

Protect damage from impact and abrasion, and self-heal small scratches to maintain beauty of surfaces.



Optical Clarity

Invisible protection on any surface without interfering with design objectives.

BROAD CAPABILITIES

Lubrizol's material science and applications expertise can help transform TPU into the best solution for your surface.



TPU Film



TPU Capstock



TPU Interlayer



TPU Fiber

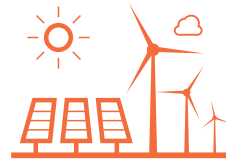
APPLICATIONS



Architectural



Electronics



Renewable Energy



Transportation

SELF-HEALING

Automotive surface scratched and healed:



Steel Wool Rubbed Over Surface



Warm Water to Hot Air to Accelerate



Scratches Completely Healed

IMPACT RESISTANCE

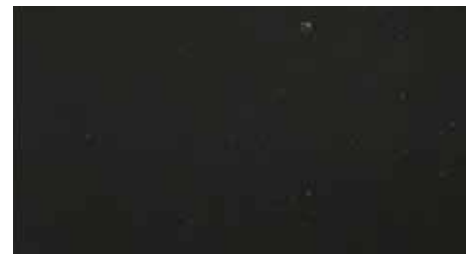
Painted metal panel impacted with and without ESTANE® TPU surface protection:



250-300 Stones @ 30-60 MPH via Gravelometer Test
(*In accordance with SAE J400)



No Protection



ESTANE® Surface Protection
(6 mil film)

LUBRIZOL
ENGINEERED
POLYMERS

ADVANCING MATERIALS.
ELEVATING PERFORMANCE.

