Pearlcoat™ ACTIVA Polymers Give Soft Touch to Thermoformed/Co-Extruded Surfaces

Markets
Transportation

Polymer
Pearlcoat™ ACTIVA 118K & Pearlcoat™ ACTIVA 198K thermoplastic polyurethane (TPU)

Key Benefits
• Low-gloss, soft TPU
• Low temperature flexibility
• Very good UV stability
• Very good abrasion resistance

In transportation logistics, long and costly processes are used to manufacture trays to transport industrial parts. These processes can now be simplified by applying Pearlcoat ACTIVA TPU in a very thin co-extruded and thermoformed TPU layer. Even the most delicate automotive parts that sit on trays can avoid damage and any level of contamination thanks to the application of Pearlcoat ACTIVA D118K.
When Pearlcoat™ ACTIVA solutions are applied in the end application, outstanding haptics (comfort), a low gloss/matt appearance and soft touch are the key benefits. The ACTIVA polymer portfolio has solutions for light and dark colors, as there is a non-yellowing, aliphatic TPU grade available which is color stable, UV- and stain resistant: Pearlcoat ACTIVA D198K, especially designed for white and light colors.

Lubrizol Engineered Polymers has developed soft touch materials that naturally stick to diverse substrates, granting a superior scratch-, abrasion- and anti-slip (dry surfaces) resistance, and the cleanest anti-static solution to final co-extruded parts based on different plastics (polar and non-polar). The TPU layer grants a longer life span, color diversity, UV resistance and top performing mechanical properties, as well as recyclability*.

The feature that stands out apart from the soft touch, is its low gloss matt appearance which is better than that of standard TPU as shown on the chart below:

![Low Gloss Pearlcoat Activa D118K](image)

*Measured on extruded films by Erichsen Picogloss 503.

Summary of benefits obtained by using aliphatic TPU:

- Soft TPU - 70 Shore A hardness
- High aesthetic appeal (leather finish)
• Very good bonding to polar substrates (ABS, PC, PVC…)
• Broad scope of process application: Extrusion, co-extrusion, co-injection & thermoforming

Lubrizol’s innovative TPU portfolio also offers lightweight Estane® cost-out solutions, and Stat-Rite® and Carbo-rite® advanced materials for conductive and non-conductive electrical- and electronic-sensitive parts.

For more information, please visit our web site: www.lubrizol.com/Engineered-Polymers

*Recyclability is based on access to a readily available standard recycling program that supports such materials. This product may not be recyclable in all areas.