

SOLUTION DATA SHEET

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



<b>Markets</b>	Transportation
<b>Polymer</b>	Pearlcoat™ ACTIVA 118K & Pearlcoat™ ACTIVA 198K thermoplastic polyurethane (TPU)
<b>Key Benefits</b>	<ul style="list-style-type: none"> <li>• Low-gloss, soft TPU</li> <li>• Low temperature flexibility</li> <li>• Very good UV stability</li> <li>• Very good abrasion resistance</li> </ul>

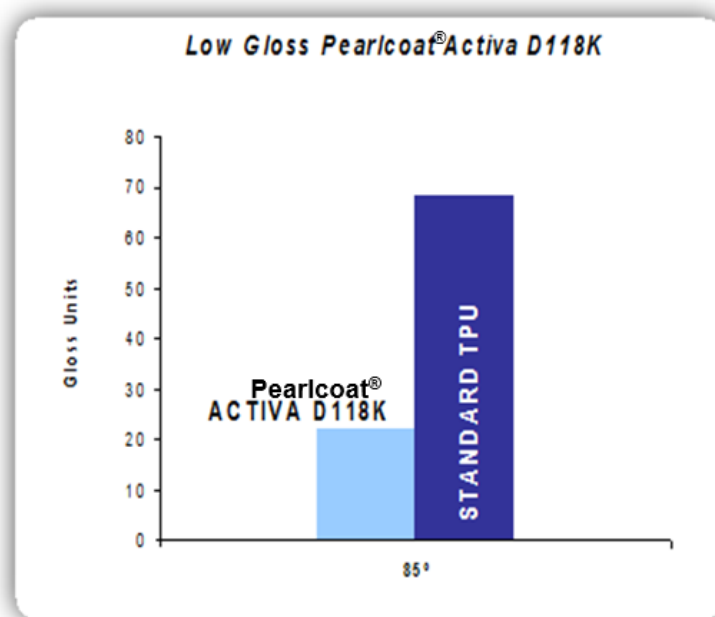
In transportation logistics, long and costly processes are used to manufacture trays to transport industrial parts. These processes can now be simplified by applying **Pearlcoat ACTIVA** TPU in a very thin co-extruded and thermoformed TPU layer. Even the most delicate automotive parts that sit on trays can avoid damage and any level of contamination thanks to the application of **Pearlcoat ACTIVA D118K**.

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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:



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)

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- 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](http://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.*

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