

SOLUTION DATA SHEET

TPU Luxurious Finish for Automotive Interiors



Markets	Automotive
Polymer	Aromatic and Aliphatic Pearlthane™ thermoplastic polyurethane (TPU)
Key Benefits	<ul style="list-style-type: none"> • High abrasion-, staining- and scratch resistance • Non-yellowing (color-stable) • Fast cycling, low density • Bio TPU™ by Lubrizol* option available upon request.

Automotive interior applications have demanding technical requirements, and TPU has exactly the right property profile and versatility to make it the material of choice for injection-moulded parts. Automotive OEMs can rely on TPU's high abrasion and scratch resistance to ensure long-term peak performance and quality. In addition, different TPU grades are available for both light and dark colours, ensuring improved UV performance and non-yellowing appearance.

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For dark-coloured automotive interior parts, **Pearlthane™ 11T85UV** and **Pearlthane 11T93** (both polycaprolactone copolyester-based TPU grades) are the most cost-effective solutions (faster moulding cycle, improved moisture stability and lower rejects) because of their unique combination of design flexibility and overall performance.

Enhance the aesthetics of your gear knobs by using Pearlthane 91T85 aliphatic TPU

For light colours, **Pearlthane 91T85**, based on Lubrizol’s proprietary TPU technology, provides even better colour stability upon UV exposure and good transparency in comparison to other TPU offerings:

Lubrizol Solution	Main Features	Application	Common Benefits
Pearlthane 11T85UV (86 Shore A)	Fast Cycling UV Resistance	Gear knobs, technical parts, key compartments, shutters, pads	Outstanding scratch and abrasion resistance. High mechanical properties (tensile, tear). Good haptics. Excellent adhesion to engineering plastics like ABS. Reduced density. Lower cost. Oil and grease resistance.
Pearlthane 11T93 (93 Shore A)	Fast Cycling Good Processability	Gear knobs, technical parts	
Pearlthane 91T85 (88 Shore A)	Non-Yellowing Chemical and Staining Resistance	Light-colour interior parts, gear knobs, front panels etc.	
ESTANE® ECO 12T95 (95 Shore A)	Bio TPU™ by Lubrizol*	All of above	

*In addition, Bio TPU™ technology has widened material options above for gear knob manufacturers with **ESTANE ECO 12T95** (previously known as Pearlthane ECO) with 32% of bio-based content as certified according to ASTM D-6866.



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

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