

SOLUTION DATA SHEET

Pearlcoat[™] 161K for High-performing **Automotive Seating**



Markets	Automotive
Polymer	Pearlcoat thermoplastic polyurethane (TPU)
Key Benefits	 Low-temperature flexibility Soft feel (76 Shore A) Low emissions (according to VDA 278) Coextrusion and textile lamination process stability Easy colour compounding

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The scope of Lubrizol's Estane[®] Engineered Polymers solutions cross many industries with unique and differentiated elastomeric materials that have high-performing properties to cover challenging, unmet needs. Cars are becoming more sophisticated, looking for better performance, aesthetics, cleanliness and comfort in materials to provide the heavy-duty performance they need for extreme conditions. Automotive seating is no exception, seating requires materials that give more performance and can meet stringent automotive requirements.

Lubrizol has a portfolio of thermoplastic polyurethane (TPU) resins for the automotive industry which includes polyether-based, breathable TPUs with a hardness ranging from 75 to 90 Shore A. The lower hardness values result in a soft-touch material. The Pearlcoat polymer solutions are compatible with a PVC-type calendaring process. Among the highlights of the unique Pearlcoat series used for specialties in automotive interiors is **Pearlcoat 161K** TPU, which has very good hydrolysis- and microbial resistance and high breathability.

Pearlcoat 161K is the ideal product for multilayer film construction in seating. And one of the key benefits is that it is a low VOC & FOG approved solution, and has very high abrasion-, tear- and puncture resistance. Due to its polyether backbone, it has an excellent performance in automotive weathering tests and shows flexibility in a wide temperature range.

Property	Pearlcoat [™] 161K	
Hardness (Shore A)	76	
Tensile Strength	25	
Tensile Stress at 100% Elongation (MPa)	4	
Abrasion Resistance (mm3)	25	

Table 1: Main Properties of Pearlcoat 161KTPU

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



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