

# REDUCING NVH IN GLOVE BOXES

**INDUSTRY:**  
Automotive

**APPLICATION:**  
Glove Box

**COMPONENT:**  
Latch

**LOCATION:**  
North America



## BACKGROUND

Minimizing noise is a common challenge automotive engineers face during the design process. Noise, vibration, and harshness is often a result of friction between two components. When tasked with reducing friction and NVH, a lubricant is often selected as a cost-effective solution. A supplier of plastic components for major Automotive OEMs approached Nye for a grease for the latch of their new glove box design. This supplier had previously ordered from Nye and was satisfied with their experience. They were looking for a grease that would reduce NVH and extend the life of the glove box.

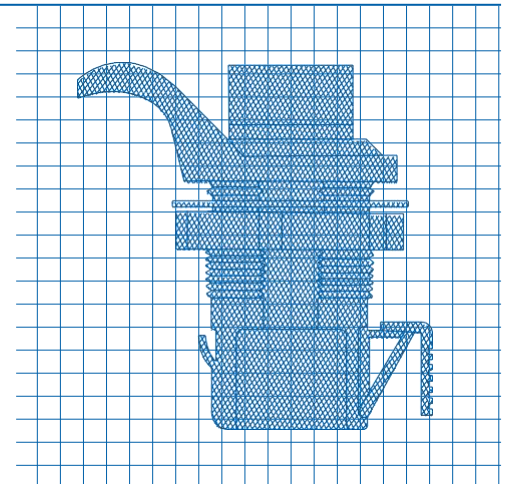
## CHALLENGES

- Can we provide a plastic-compatible lubricant that reduces friction and improves durability?
- Can Nye's lubricant reduce NVH in the customers glove box design?

## SOLUTION UNIFLOR™ 8512

A PTFE thickened, medium viscosity, completely fluorinated grease.

- Compatible with most plastics and elastomers
- Reduces noise and controls motion
- Provides lifetime lubrication



## RESULTS

After completing in-house validation testing, the customer decided that Uniflor™ 8512 was compatible with the materials of their design and sufficiently reduced NVH. Uniflor™ 8512 will improve the durability and extend the life of 600,000 glove boxes annually.

Base Oil Properties	Conditions	Uniflor™ 8512	Test Method
Chemistry		PTPF / PFPE	
Temperature Range		-50 to 225 °C	
Kinematic Viscosity	40 °C	65 cSt	ASTM D445
Viscosity Index		258	ASTM D445
<b>Grease Properties</b>			
Penetration	Worked, 60x	281	ASTM D217
Oil Separation	24 h, 150 °C	6.8%	ASTM D6184
Evaporation	24 h, 150 °C	1%	CTM*

\*CTM: Nye Company Test Method

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