



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.

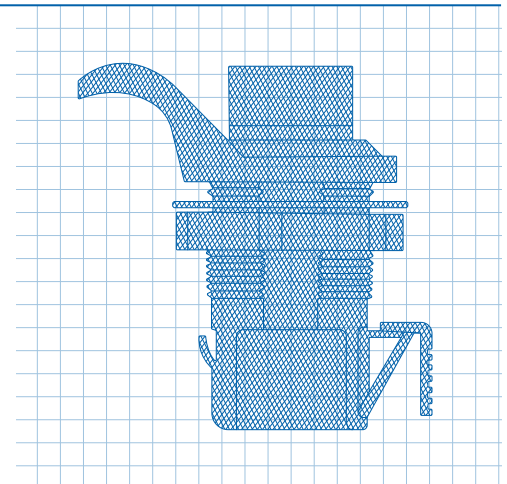
CHALLENGES

- 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
Grease Properties			
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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Nye Lubricants is a leader in the innovation, formulation and provision of synthetic lubricants, enabling and improving breakthrough products and critical new technologies. We bring proven experience, deep technical knowledge and customer focus to solve our customers' toughest challenges, adding tangible value to products in a wide range of industries and applications.

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