



## Chemical Resistant Grease for Seat Reclining Mechanisms

**Application: Seat Recliner Key Mechanism**

**Location: Canada & Mexico**

### Challenge

Wear protection is just one function of grease. Lubricants can also be used to create a barrier that protects components from corrosive elements. A leading supplier in automotive seating components experienced difficulties with their recliner key mechanism. During testing, the chemical bath used for e-coating the seat frame got inside the mechanism and removed the existing lubricant. This caused operating issues, particularly unwanted noise. The OEM needed a grease that would seal the mechanism so that it could withstand the high temperatures and chemicals used in the e-coating process. The grease also needed to be compatible with plastics as the design included plastic side shield covers.

### Solution

UNIFLOR 8172 is a PTFE thickened, light viscosity, grease with a wide operating temperature range from -45 to 225°C. This PFPE grease is resistant to aggressive chemicals and is compatible with most plastics and elastomers. Additionally, this grease is specified by DaimlerChrysler (MS-9987) and GM (9985880).

### Results

The customer completed in-house testing of UNIFLOR 8172 against several other greases. No other grease met the customer's temperature

### Advantages

Wide temperature performance

Compatible with plastics and elastomers

Resistant to aggressive chemicals

# CASE STUDY

and compatibility requirements so the OEM ultimately selected UNIFLOR 8172 to replace the existing lubricant within their reclining mechanism. UNIFLOR 8172 successfully sealed the mechanism to enable e-coating and reduced the noise within the component. The customer remains satisfied with the product.

## Repeat Headline