



**Safety**

## All Plastic Hood Leveler

### *OEM/Vehicle*

**Ford Motor Company  
2018 Lincoln Navigator**

### *System Suppliers*

**MacLean-Fogg, Engineered Plastic  
Components, Inc.**

### *Material Processors*

**MacLean-Fogg, Engineered Plastic  
Components, Inc**

### *Material Suppliers*

**DuPont Automotive, ExxonMobil**

### *Resins*

**Zytel 70G33 PA66, Delrin 100 POM,  
Santoprene SA60 TPE**

### *Tooling/Equipment Supplier*

**Elite Tool & Die**



This industry first all plastic hood leveler helps to manage pedestrian hood/head impact to reduce head trauma. It features a light weight design, OEM snap-in quick assembly, preset and adjustable height, and is recyclable. A 50% weight savings and a 35% cost savings is estimated compared to current steel/plastic/rubber hood levelers. The snap-in base is Acetal for a strong snap feature and no squeak against the Nylon post. The threaded post is nylon for strength and low moisture dimensional influence. The over-molded bumper is TPE for no squeak on the inner hood and additional energy management. The interaction of the three chosen polymers allow for required use of their individual properties and also the collaborative energy management response as they work together to help reduce head impact trauma from beneath the hood inner upon a low speed pedestrian contact.