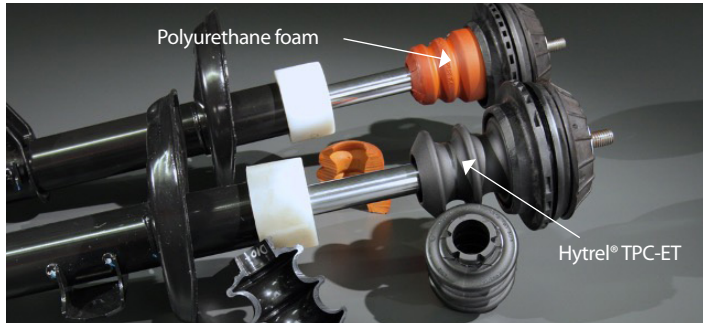


# A BETTER JOUNCE BUMPER: HYTREL® TPC-ET LOWERS GLOBAL WARMING POTENTIAL AND WEIGHT, IMPROVES PERFORMANCE

SMOOTHER RIDE, LOWER-COST SOLUTION INTEGRATES FOUR PARTS INTO ONE, ELIMINATES SLIDING FOR REDUCED WEAR.



Suspensions are critical to vehicle comfort, road handling, safety, and driving performance. Jounce bumpers are a vital part of the suspension, designed to absorb impact and dampen noise, vibration, and harshness (NVH). Typically made from crosslinked polyurethane foam (PUR), they prevent metal shock absorber springs from fully compacting during impact from potholes, curbs, cobblestones, and objects in the road, or during quick direction changes or sudden braking.

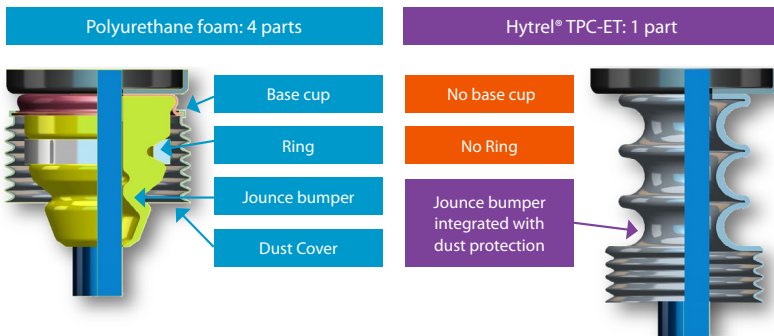
To improve sustainability, suspension designers are tasked with removing weight to increase energy efficiency and reduce CO<sub>2</sub> emissions. In addition, they must develop eco-smart designs for easy disassembly so that components can be recycled at a vehicle's end of life. What they won't compromise on? Vehicle comfort, safety, and handling.

Together with Tier 2 automotive partners such as Trelleborg Boots, the automotive team at Engineered Materials is collaborating to develop a blow-molded, hollow Hytrel® TPE-ET jounce bumper solution that integrates four parts into one, performs better than established materials, and improves durability as well as sustainability of the suspension system.



**TRELLEBORG**

Thomas Leblois, Business Unit President for Trelleborg Boots, explains, "This is a lighter-weight, more environmentally friendly alternative to crosslinked PUR, and improves vehicle comfort and handling in numerous validation tests."



A Hytrel® TPC-ET jounce bumper...

- Doesn't require a separate base cup, ring, or dust cover bellow
- Eliminates contact with the strut – no sliding – for zero added friction and no abrasion or wear noise
- Utilizes a snap-fit assembly for greater durability
- Has more consistent performance over temperatures from -40°C to 140°C, retaining resilience and compression
- Enables the use of post-industrial regrind (PIR) material and recycled material from end-of-life vehicles

Hytrel® TPC-ET jounce bumpers are ready today for the sustainability needs of tomorrow.



Looking for more technical details about how this technology can give you a jounce bumper that reduces CO<sub>2</sub> emissions, lasts longer, weighs less, allows easy disassembly and recycling, and performs better than current polyurethane foams? We're confident that a fully integrated Hytrel® TPC-ET thermoplastic elastomer jounce bumper is the best solution to answer new sustainability challenges, such as lower GWP and greater circularity. Let's explore the possibilities together. Contact us by clicking [here](#).