



Bumper energy absorbers

Bumper system energy absorbers from **O-Flex Automotive** meet the new pedestrian protection requirements and truck vs. passenger car bumper height requirements. The product is a metal-spin-formed composite-bonded quadrangular cross section tube with tight corrugated walls. The tube produces a nearly perfect square wave force when impacted and can withstand a series of multiple impacts with minimal degradation in force level or energy absorption efficiency. Its performance is not affected by temperature, humidity, or aging, which can be an issue for plastic energy absorbers. For the application shown here, the square wave efficiency actually improves after each subsequent impact with an extremely small permanent set after each impact. The specific cost and mass of the energy absorber is the same as 4.0 lb/ft³ (64 kg/m³) foam.

For more information, visit booth 206