



PORON EVExtend® Polyurethane Foams in Solid-State Batteries

Solid-state batteries have the potential to provide a step change in performance for electric vehicles. They are projected to increase cell level energy density by 100% and improve safety by replacing flammable, liquid electrolytes. These benefits, however, do not come without challenges.

Key Material Attributes:



Customizable stress-strain behavior to address a wide range of pressure management needs



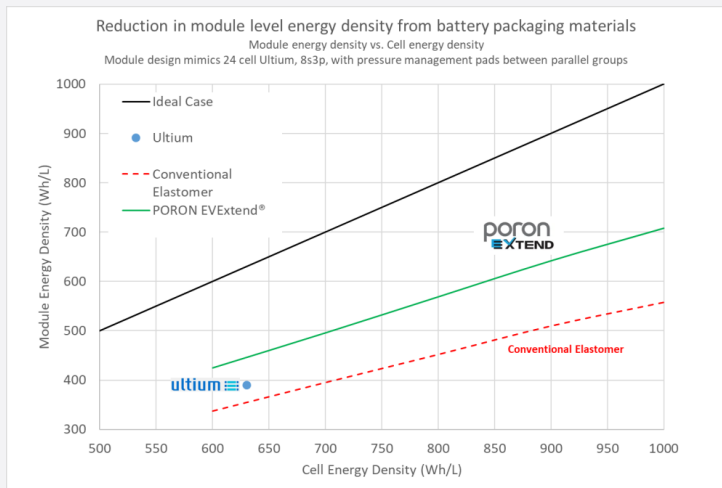
Superior compression set resistance



Good dielectric strength for use around high-voltage components

PORON EVExtend® polyurethane foams are formulated to provide desired pressure management at minimal thickness.

The high compressibility of PORON EVExtend foams allows for a thinner pad to accommodate the same cell expansion. Use of thinner cell pads can reduce overall pack size or allow for the addition of other value-add components.



Cycle Life Improvement

PORON EVExtend® foams are engineered to have a flat compression force deflection (CFD) curve and exhibit excellent compression set. This unique behavior allows for significant cycle life improvement.

