

# Making strides into the footwear of the future

## CHALLENGES

- How can process, sustainability and performance be optimized while managing costs every step of the way?
- The good news: more people are moving and being active. But many are new to sports, elderly, or both. Footwear needs to help prevent discomfort and injuries.
- Shoe manufacturers want to deliver reliable performance under a variety of demanding conditions, but also reduce the carbon footprint of their manufacturing operations and products.
- Adjusting the fit of high performance footwear like ski boots, hiking boots and running shoes can be challenging, especially while out in the elements and unpredictable terrain.

## REQUIREMENTS

- Durable footwear that also supports your body.
- Ability to work with existing manufacturers' fit system.
- Resistance to high temperatures and moisture.
- Maximum flexibility to meet all footwear needs.

## SOLUTIONS

- **Hytrel**® TPC ET thermoplastic elastomer: the single material that excels at an extraordinary range of jobs.
- New foamable **Hytrel**® for shoe soles and insoles offers a VOC-free alternative to chemically foamable materials, and also delivers improved supportability and shock absorption at lighter weight.
- **Hytrel**® properties after foaming include higher rebound and better resilience (15% greater resilience and 20% less weight vs. TPU).
- **Zytel**® polyamide resin: the versatile material that provides strong endurance and heat, fatigue and chemical resistance.



Flexible



Supportive



Breathable



Strength and abrasion resistance



Lightweight



Low carbon handprint