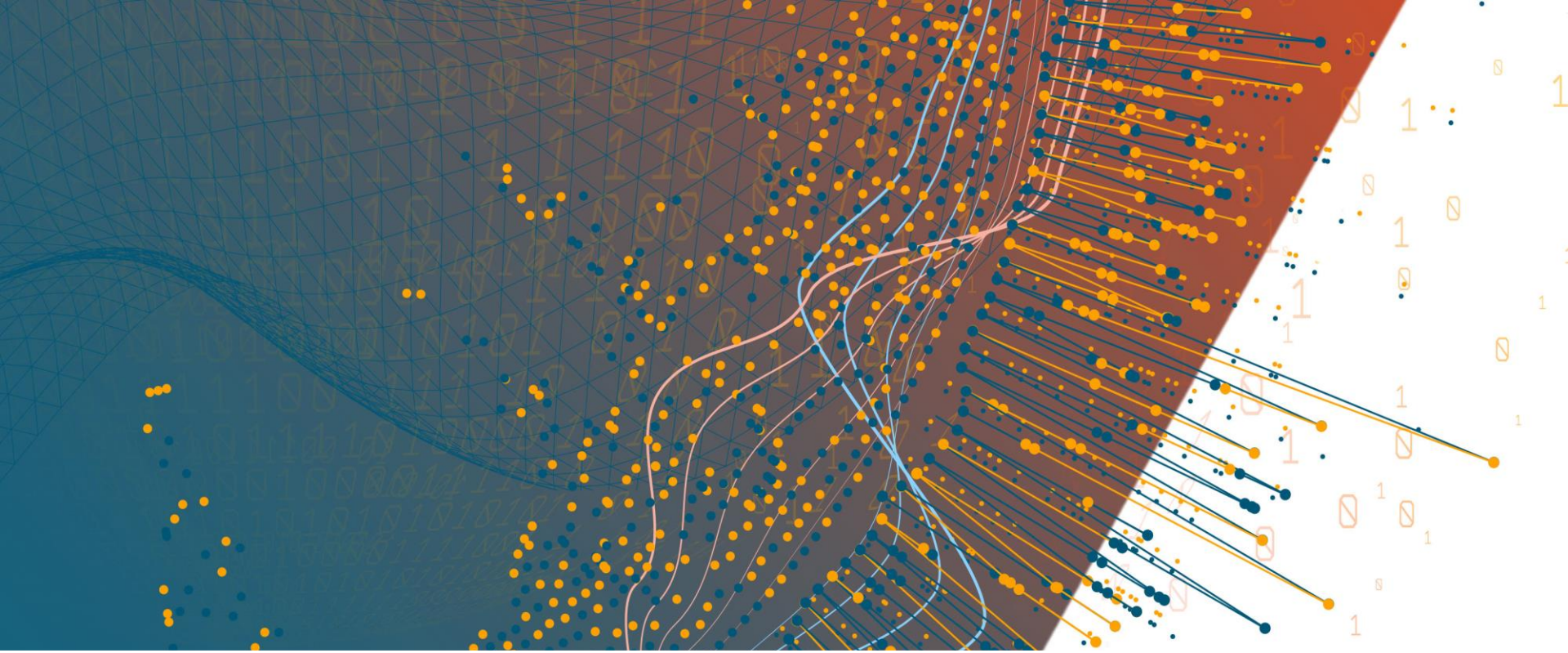


ALTAIR | PolymerFEM Advanced Material Models

POLYUMOD TOP USE CASES

Altair Partner Alliance

Accurate Modeling of Thermoplastic Components using Radioss

Challenge

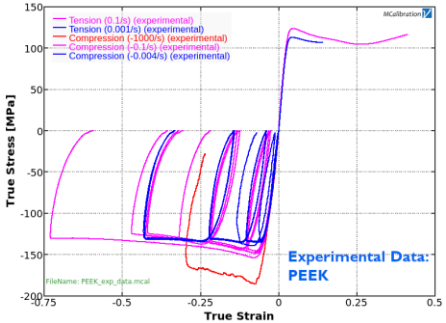
- Thermoplastic materials exhibit a non-linear strain-rate dependent response that is difficult to accurately represent in a Radioss FE model

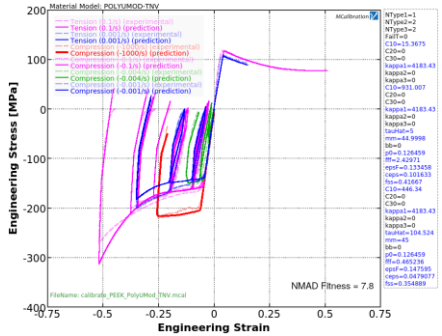
Solution

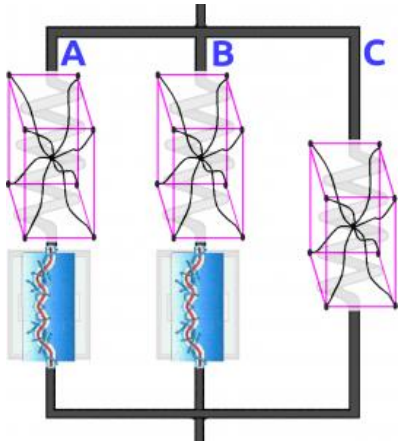
- Our PolyUMod material model contains advanced material models that can accurately predict the deformation response of all thermoplastics

Result

- Many products undergo impact loading in normal use. Examples include hip implants, helmets, cell phones, etc. Our PolyUMod library help engineers model these products more accurately.





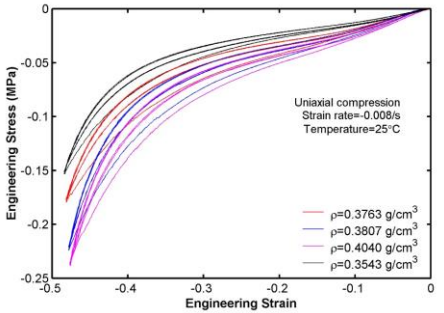


ALTAIR

Accurate Modeling of Energy Absorbing Foams using Radioss

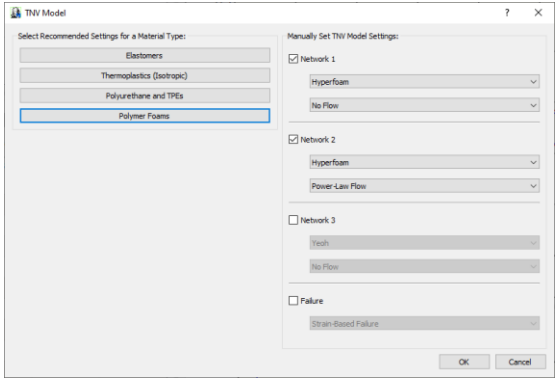
Challenge

- Energy absorbing foams are used in many industrial applications for noise and vibration isolation, and for protection in impact events. It is difficult to accurately predict the response of these materials in Radioss.



Solution

- Our PolyUMod material model contains advanced material models that can accurately predict the deformation response of all thermoplastics



Result

- Our PolyUMod library enable Radioss users to more accurately predict the response of these industrially important materials.

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