Elastic Properties Calculator (EasyPBC)

Model and analysis details

Model name: Model-1

Instance name: Part-1-1

Mapping accuracy * : 1E-07

Number of CPUs to be used ** : 1

* Mesh mapping accuracy of opposite sides should be within the above value.

** If number of CPUs exceeds the available, all available CPUs will be used.

The homogenised elastic properties

- [x] E11 (Young modulus in X-direction)
  - + Dependent V12 (Poisson ratio in XY-direction)
  - + Dependent V13 (Poisson ratio in XZ-direction) for 3D models
- [ ] E22 (Young modulus in Y-direction)
  - + Dependent V21 (Poisson ratio in YX-direction)
  - + Dependent V23 (Poisson ratio in YZ-direction) for 3D models
- [ ] E33 (Young modulus in Z-direction) for 3D models
  - + Dependent V31 (Poisson ratio in ZX-direction)
  - + Dependent V32 (Poisson ratio in ZY-direction)
- [ ] G12 (Shear modulus in XY-direction)
- [ ] G13 (Shear modulus in XZ-direction) for 3D models
- [ ] G23 (Shear modulus in YZ-direction) for 3D models
- [ ] If ticked, only corresponding PBC will be created, elastic properties will not be estimated.

Coefficient of Thermal Expansion (CTE)

- [ ] Calculate CTE in X, Y, and Z direction

Initial temperature: 0

Final temperature: 100

OK Cancel