ANSYS - Crank 3 Specify material properties Content

Step 3: Specify material properties

Main Menu > Preprocessor > Material Props > Material Models

In the Define Material Model Behavior menu, double-click on Structural, Linear, Elastic, and Isotropic.

	Material Models Available	
×	Structural Linear Elastic Elastic Cothotropic Orthotropic Anisotropic Nonlinear Density Thermal Expansion Coef Damping Friction Coefficient Licer Material Options	
		Material Models Available Structural Elastic Structural Elastic Orthotropic Orthotropic Nonlinear Density Thermal Expansion Coef Damping Friction Coefficient Iteer Material Ontione

We'll use the previously defined parameter names while specifying the material properties. Enter 2.8E7 for Young's modulus EX, 0.3 for Poisson's Ratio PRXY. Click OK.

	T1	
Temperatures	0	
EX	2.8E7	
	0.0	

To double-check the material property values, double-click on Linear Isotropic under Material Model Number 1 in the *Define Material Model Behavior* menu. This will show you the current values for *EX* and *PRXY*. Cancel the *Linear Isotropic Properties* window.

This completes the specification of *Material Model Number 1*. When we mesh the geometry later on, we'll use the reference no. 1 to assign this material model. Close the *Define Material Model Behavior* menu.

Save your work

Toolbar > SAVE_DB