

<https://medium.com/jaycon-systems/plastics-101-selecting-the-right-material-for-injection-molding-10edb3a8baba>

Key Factors to choose correct Material when injection molding



ensure you select the right resin for your project, keep in mind the following variables:

- Impact strength — Some applications require more base strength than others, so a resin's Izod impact strength should be determined from the start.
- Tensile strength — Ultimate tensile strength, or ultimate strength, measures the resin's resistance to tension and its ability to withstand a given load without pulling apart.
- Flexural modulus of elasticity — This refers to the degree to which a material can be bent without damage and still snap back to its original form.
- Heat deflection — This is especially important for applications that require insulating performance or tolerance for a variety of temperature ranges.
- Water absorption — This is based on the percentage of liquid taken on by a material after 24 hours of immersion.