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To set up a tolerance stack-up analysis, follow the steps below. Understand the assembly process and the design objectives. Determine the tolerances being used and how the tolerances are distributed and are to be supported. Create a tolerance stack-up chart by using the tolerance data. Create the " life-cycle " of the part to determine at which number of cycles the life of the part is to be stopped. Create the " allowable bending moment " for the part to determine at what number of cycles the part can bend and deform as if it is damaged. Determine the type of thermal loads the part will undergo. Identify the thermal characteristics of the work environment. There are a number of variables that need to be analyzed in terms of how the tolerances are applied. First, it is important to determine the number of product cycles that are needed and what exactly is the life of the part. As a general rule, it is not advisable to go beyond one million cycles. For some applications, it may be more appropriate to use a shorter life time. Second, the allowable bending moments of a part must be determined. If a part is subjected to cyclical stress, the part eventually will fail if it exceeds the allowable bending moment, which means that this part has exceeded its useful life. Finally, the tolerance stack-up graph must be created with the expected thermal characteristics that the part will be subjected to. A tolerance stack-up chart is a method of analyzing how the tolerances affect the part based on the assembly process. The outcome of the stress test is a graph that shows how and why the part is failing at the failure rates determined in the previous step. Theoretically, the higher the occurrence of failure, the higher the chance of a product failing at the time of final assembly.

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