



# Test Specifications

Title: Compression/Deflection

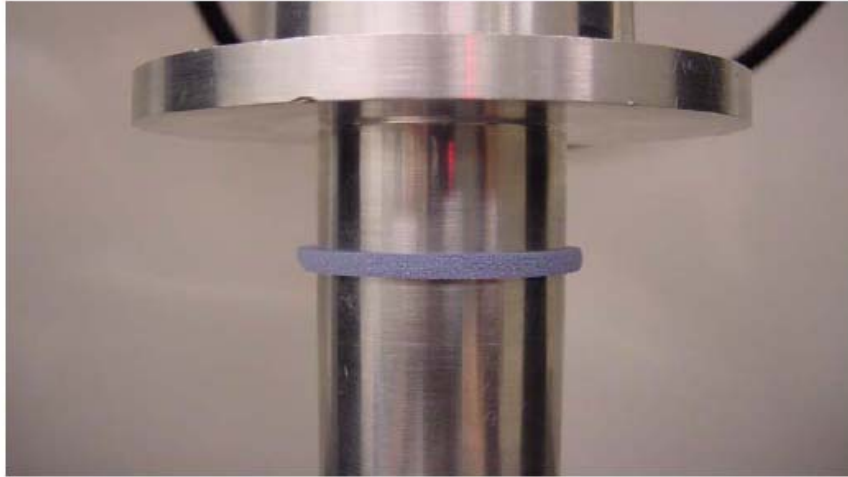
ASTM Standard: D 575

Equipment: MTS Universal Tester

**Test Description:** Compression testing measures the compression-deflection properties of Thermazig Technologies elastomeric materials. The test is performed using a Materials Testing Station equipped with deflection platens, a load cell and a deflectometer. This equipment is used to record specimen thickness as it undergoes deflection between the platens. Pressure used to cause this deflection is recorded and this information is used to determine the amount of force needed to cause a specified deflection from the specimen's initial thickness (reported as %deflection).



**The deflection procedure is based on ASTM D 575-91 "Standard Test Methods for Rubber Properties in Compression"; Test Method A. Reference this document for scope of test, apparatus, specimen description, test method and calculations.**



### **Thermazig**

**Technologies's modification to the ASTM method includes variation of the thickness of the specimen below the recommended thickness limits. ASTM D575 specifies specimen to be 500 mils thick, which is outside the range of Laird Technologies manufactured materials. Performing the test on materials thinner than specified gives the user data that better applies to application conditions. Strain rate for the deflection procedure is 10 mils/minute. All other test parameters are as specified by ASTM D 575.**