

Deflection Temperature under Load (HDT) ASTM D648

Scope:

Heat deflection temperature is defined as the temperature at which a standard test bar deflects a specified distance under a load.

Test Procedure:

The bars are placed under the deflection measuring device. A load of 0.45 MPa or 1.80 MPa is placed on each specimen. The specimens are then lowered into a silicone oil bath where the temperature is raised at 2° C per minute until they deflect 0.25 mm for ASTM, 0.32 mm for ISO flat wise, and 0.34 mm for ISO edgewise.