

Laboratory for Thermal Resistance Testing - Vicat & Martens

Laboratory for Thermal Resistance Testing of thermoplastic polymers provides characterization of the softening temperature using standard Vicat and Martens methods.

Vicat Softening Temperature (VST) is a standard test - ASTM D 1525 (ISO 306) for measuring of the temperature at which a polymer starts to soften rapidly. A round, flat-ended needle of 1 mm² cross section is placed on the surface of the test specimen under load and the temperature is raised at a constant rate. VST is typically the temperature at which the penetration reaches 1 mm.



Vicat test equipment

Martens method consists in determining the temperature at which the sample with standard body sizes, situated under the influence of constant bending load, is deformed to a certain value at a constant heating rate.



Martens test equipment

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