

Apparatus for Plastics - Determination of pourability (ISO 6186:1998)

European-Pharmacopoeia-2.9.16-FLOWABILITY

The apparatus is used to measure the pourability of plastics in powder or granular form. The material is passed through a specified funnel and the expiration time is determined using a stopwatch. You may get information regarding processability and uniformity of the material. The free flow of materials is influenced by the surface characteristics of the grains, especially of grain size, grain size range and moisture.

Normative reference

The flowability of plastics in powder or granular form is determined according to the ISO 6186: 1998.
Plastics - Determination of pourability (ISO 6186:1998) European-Pharmacopoeia-2.9.16-FLOWABILITY



Abbildung kann vom Original abweichen.

Apparatus for determining pourability

(Type: L50566020)

Full equipment made of stainless steel. Stable and non-slip stand.
The diameter of the outlet can be varied by means of different nozzles.
The hopper can be operated by a sliding opening.
The smooth surface allows easy operation and cleaning.

Containing of:

Funnel for changeable nozzle out of stainless steel (Art: L505660201)
3 funnels with underrun 10 mm, 15 mm and 25 mm (Art: L50566020-2,-3-4)
cup out of laboratory glass Clean Save, (Art: L505660205)
to catch the sample material.

Optional:

Dish for apparatus for collection of sample material. (Art. L5056601W)

Necessary laboratory supplies (testers):

Stopwatch, electronically 1/100 sec (Art. 210171000)
Precision scales for weighing of sample material (Art. 5346803)

expiration of measurement

The material sample is tested as delivered at room temperature. If necessary observe the humidity, when the ambient air can affect the results. The DIN describes two measurement methods. According to method A 150 g sample of the material are placed in the hopper, the lower opening is closed by the sliding opening. The slide is then rapidly opened, so that the sample flows. According to the process B, the funnel is filled overflowing and excess of material is stripped off with a straight-rod from the hopper. The slide is then rapidly opened, so that the sample flows. The sample should be filled through the inside wall of the funnel, that no condensation takes place. In both methods, beginning with the 10.0 mm nozzle and repeated with the next wider nozzles if the sample does not flow. If necessary, an antistatic agent is used. The measurement of the time begins, when the slider is opened and ends, when the opening is visible watching from the funnel. After each measurement, the device needs to be cleaned. As a result, the average value of three tests has to be calculated. The report must be drawn up according to Din.

The determination is based on the European standard ISO 6186: 1998th. This description is just for orientation.

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