

DETERMINATION OF THE REACTIVITY OF PUR FOAM COMPONENTS**Application**

This method is used to determine the reactivity of polyols and isocyanates, used to produce PUR foams. The polyol compound is being tested with the appropriate isocyanate compound and the isocyanate compound with the polyol.

Apparatus Required**Laboratory Stirrer**

With an approximately 60 mm diameter propeller and a rotational speed of 1380 revolutions/minute.

Temperature Controlled Water Bath

Capable of maintaining 23 °C +/- 1 °C to condition the components.

Analytical Balance**Stop Watch****Ventilated Fume Cabinet****Standard Carton Cups**

Capacity approximately 850 cm³, diameter 89 mm, height 137 mm.

Disposable Gloves**Protection Glasses****Conditioning and Test Conditions**

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Date	Action	Revisions
2001 04 02	Revised	Editorial – no technical change A. Cockman
1996 10 21		

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Procedure

1. Fill a carton cup with the tare weight of component A and B specified in the relevant material specification.
2. Immediately after adding component B, stir the mixture for the time period defined in the relevant material specification.
3. After stirring, the foaming process shall be observed and the reaction profile determined with the stop watch.

Note: During all activities in connection with foam components, the operator must wear gloves and protection glasses. All activities must be carried out within the ventilated fume cabinet.

Definitions:

Creaming Time: Time from start of stirring until beginning of volume rise.

Rising Time: Time from start of stirring until end of volume increase.

Tack Free Time: Time from start of stirring until the material is tack free.

Determination of Foam Density of the Cup Test

Twenty minutes after start of stirring the excessive foam material shall be cut flush with the rim of the cup. The weight of the foam material shall be determined and the density calculated.

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.