



NATIONAL RESEARCH CENTRE
TAHRIR St. DOKKI, CAIRO, EGYPT
Central Unit For Analysis And
Scientific Services (CUASS)
Material Test Lab.

المركز القومي للبحوث
القاهرة . جمهورية مصر العربية
وحدة التحليل والخدمات العلمية المركزية
معمل اختبار المواد



Test Report

Report No.

Client

Authority & date

Items Tested

Results

Report Typist

Test carried by

Authorized by

Issue date

**Condition of Test
& Issue**

MOI 2288 11 2019

Prokem Specialty Chemicals

Request Orders 17/11/2019

KEMSEAL SF

The detailed test results are given on the following pages of this report (4 pages).

- * **Mis. Naglaa Mohamed-Sara Abdel Reheam Noha Samir**
- * **Mis . Fatma El Zahraa Fikry**
- * **Mis . Noha Samir - Sara Abd Elraheam**
- * **H.Eng. Ahmed Said**
- * **Chem. Amr El Shafey**
- * **Dr. Abou El Ftouh Abd El Hakem**

Prof. Dr. Mostafa Zaki Mostafa

- * **The Supervisor of Ceramics, Polymer and Solid Matter Department.**
- * **Management Representative and Quality Assurance Manager.**

17/12/2019

The test specimen was conditioned at 23 °C with a humidity of 60 % and the needed calibrations as well as balancing of the all used machines were always done .



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To/ Prokem Specialty Chemicals

Dear Sir.,

With correspondence to your request dated 17/11/2019 concerned testing sample of KEMSEAL SF , we would like to inform you that the all following needed tests were carried out which namely :-

1- Crack bridging test according to ASTM C1305 .

Taking into consideration the following conditions:

- 1- In all mechanical properties GALDABINI – QUASAR 600 – Made In Italy Universal Testing Machine was used This type has a self calibration , zero adjusting and automatic balance , which are done daily before testing or during testing this testing instrument is accompanied by a highly reliable system for evaluating the mechanical properties .*
- 2- On heating a Memmert West Germany oven was used .*
- 3- Weighing Balance with tolerance + 0.0001 g was used in determining the weights .*
- 4- Measuring drum of sensitivity ± 0.01 mm was used for dimensions evaluation.*
- 5- The all used Machinery and the apparatus were calibrated periodically.*

The following tables give the obtained results representing the sampling produced by your company.



(2/4-2288)





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Crack bridging test according to ASTM C1305

on a sample of KEMSEAL SF

Delivered from Prokem Specialty Chemicals

No.	No. of cycles	Maximum (mm) movement	Observation
1	10	1.30	No failure
2		1.45	
3		1.40	
4		1.50	
5		1.40	

* The sample resist the crack (1.3 - 1.5mm) without any observable changed.



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M. M. M. M. M.
12/7/2019

(3/4-2288)



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*This report was given to you representing only the results on testing sample of KEMSEAL SF, delivered from Prokem Specialty Chemicals , These results and conclusions were given to you without any responsibility on **THE CERAMICS, POLYMERS AND SOLID MATTER DEP.** Of **THE MATERIAL TEST LAB** in **THE NATIONAL RESEARCH CENTRE** for pick up the samples to be tested.*

**Head of Director of the Board of Central Department
For Scientifical Analysis and Tests**

&

**SUPERVISOR ¹⁷
OF CERAMICS, POLYMER AND
SOLID MATTER DEPARTMENT**

PROF.DR. MOSTAFA ZAKI MOSTAFA



(4/4-2288)

