

TEST REPORT *)

Applicant: L'isolante K-FLEX S.r.l.
I-20040 Roncello (MI)/Italy

Content: Determination of the Tensile Properties according to
ASTM D 1623 – 78, at - 165 °C

Material: „K-Flex ST”

Material Identification: Sheet material out of flexible elastomeric foam with
skins. Nominal thickness: 25 mm
Density: 61 kg/m³

Sampling: The samples were taken on 20th June 2001 at the plant
Roncello/Italy by employee of FIW.

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Total pages: 2

Procedure:

The test specimens have been conditioned for 48 hours at 23 °C, the dimensions have been measured. The test specimens were stored for 90 minutes in liquid nitrogen at a temperature of -196 °C and then stored for another 30 minutes in the thermocouple controlled test chamber at -165 °C. Then the Tensile test has been made according to ASTM D 1623-78 in length and width direction of the sheets. Instead of Type A specimens, test specimens with a width of approx. 25 mm and a thickness of 12 mm were used.

The Tensile Strength at breaking load, the elongation and the Tensile modulus of elasticity have been calculated out of the dimensions, the recorded extension and corresponding load curve.

Results:

The test results at -165 °C for the two directions are summarized in the following table:

	No.	Tensile Strength kPa	Elongation	Tensile modulus kPa
X-Direction length-direction	1	470	1,5	45700
	2	410	1,5	40000
	3	360	1,4	37200
	4	400	1,3	45200
	5	420	1,6	38500
	mean	410	1,5	41000
Y-Direction width-direction	1	380	1,7	30100
	2	290	1,9	25200
	2	310	1,6	31700
	4	210	1,5	23200
	5	300	1,7	24600
	mean	300	1,7	27000

Remarks: --

Gräfelfing, July 12, 2002 WA-rb
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Tester

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