

## Report of Brandschacht tests according to DIN 4102-1

Test-Nr.	01.52.5133.09	Date: 15 <sup>th</sup> Oct. 2009
Applicant	Soyang Europe GmbH, 41460 Neuss	
Material tested	Polyester fabric	
Material name	DY-BW2-510 (1018)	

### Material data

Test thickness  
weight per square meter  
density

mm
g/m <sup>2</sup>
kg/m <sup>3</sup>

Climatised storage  
Preliminary end of test

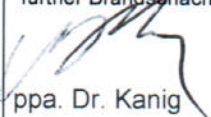
yes
no

**Remarks:** sample 1 and 2 front side to burner  
sample 3 and 4 back side to burner

Sample		A	B	C	D
First flaming*)	min, sec	0:05			
Max. flame height	cm	60			
Point of time *)	min, sec	0:35			
First melting *)	min, sec	0:07			
Flames on reverse side of test unit *)	min, sec	-			
Influence on burner flame *)	min, sec	0:10			
Components drip down *)	min, sec	0:30			
Extent		low			
Continuation of burning on the perforated bottom **)	min, sec	< 0,06			
Max. effluent temperature	°C	118			
Appeared after *)	min, sec	10:00			
Effluent temperature after 10 min.	°C	118			
Smoke density		strong, later on low			
Afterglowing **)	min, sec	-			
Residual lengths	Specimen 1	cm	50		
	Specimen 2	cm	58		
	Specimen 3	cm	58		
	Specimen 4	cm	58		
Mean value of each single test		cm	56		

Remarks: 2:15 end of flame appearance

This test is an exploratory analysis and not a confirmation of building material class according to DIN 4102-1. The material has passed the Brandschacht test to DIN 4102-B1 in the above mentioned test arrangement. According to the application further Brandschacht tests and a B 2-test are required.

  
ppa. Dr. Kanig

  
i.V. Kielhorn

\*) Time referred to the beginning of the test  
\*\*) Time period

	Requirements		
	A 1	A 2	B 1
Brandschacht			
- Residual length			
a) Mean value of each test	> 35 cm	> 35 cm	> 15 cm
b) each single value	> 20 cm	> 20 cm	> 0 cm
- Rauchgastemperatur	< 125 °C	< 125 °C	< 200 °C
- Entflammung auf der Probenrückseite	nein	nein	zulässig
- Brandparallelerscheinungen	kein Anlass zu Bedenken		
weitere Nachweise	750°C Ofen, Rauchdichte, Toxizität, ggf. Heizwert	B2-Brennkasten	