



**Institut pro testování a certifikaci, a.s.  
Divize CSI - Centrum stavebního inženýrství**

**Fire Technical Laboratory**

**AUTHORIZED  
BODY**

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BODY**

## **CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH ČSN EN 13501-1:2019**

**Applicant:** Mehler Technologies GmbH  
Rheinstraße 11  
41836 Hückelhoven  
Germany

**Prepared by:** Institut pro testování a certifikaci, a.s.  
Divize CSI – Centrum stavebního  
inženýrství  
Pražská 16, 102 00 Praha 10  
Czech Republic

**Product name:** POLYMAR 8540

**Classification  
report No.:** PK-21-196

**Issue number:** 1/2

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## 1. DETAILS OF CLASSIFIED PRODUCT

### Nature and end use application:

Classification of the product *POLYMAR 8540* is valid for the following end use application:

Tarpaulin for textile construction.

### Description:

The product *POLYMAR 8540* is fully described in the test reports in support of the classification listed in clause 2.

## 2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

### Test reports

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
ITC a.s., Divize CSI, Fire technical laboratory	Mehler Texnologies GmbH	21/P623	ČSN EN ISO 11925-2
		21/P624	ČSN EN 13823

### Measured values and test results:

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
ČSN EN ISO 11925-2 exposition = 30 s	$F_s \leq 150$ mm <sup>(1)</sup>	6	yes	yes (B - D)
	ignition of filter paper <sup>(1)</sup>	6	no	no (d0)
	$F_s \leq 150$ mm <sup>(2)</sup>	6	yes	yes (B - D)
	ignition of filter paper <sup>(2)</sup>	6	no	no (d0)
ČSN EN 13823	$FIGRA_{0,2 MJ}$ (W/s)	3	30,0	$\leq 120$ (B)
	$LFS < edge$	3	yes	yes (B, C)
	$THR_{600 s}$ (MJ)	3	0,6	$\leq 7,5$ (B)
	$SMOGRA$ (m <sup>2</sup> /s <sup>2</sup> )	3	14,5	$\leq 30$ (s1)
	$TSP_{600 s}$ (m <sup>2</sup> )	3	47,6	$\leq 50$ (s1)
	flaming droplets / particles	3	no	no (d0)

<sup>(1)</sup>: surface flame attack

<sup>(2)</sup>: edge flame attack

### 3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION

#### Reference and direct field of application

This classification has been carried out in accordance with the clause 11.6, 11.9.2 and 11.10.1 of ČSN EN 13501-1:2019.

#### Classification

The product *POLYMAR 8540*, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s1**

The additional classification in relation to flaming droplets/particles is:

**d0**

The format of the reaction to fire classification for *POLYMAR 8540* is:

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

**Reaction to fire classification: B-s1, d0**

#### Field of application:

This classification is valid for the following end use conditions:

- without substrate

## 4. LIMITATIONS

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### Restrictions

This classification report is valid, provided that the technical specifications of the product will not be changed.

### Warning

This document does not represent type approval or certification of the product.

Prepared:		Reviewed:
		
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Jiří Socha		Vít Slaboch head of laboratory