

## Scope of Accreditation

**Accredited body:** Research Institute for Man-Made Fibres  
Štúrova 2, 059 21 Svit

**Organizational unit performing the activity of the accredited body:**  
Testing Laboratories of Physical, Analytical and Textile

**Place of performance of the accredited body:**  
Štúrova 2, 059 21 Svit

**Identification number of the accredited body:** 012/S-020

### Laboratory with fixed scope

Item	Object		Established method		Other specifications (scope, uncertainty, purpose, modification/validation, opinions/interpretations, etc.)	
	Subject /Matrix /Environment	Property /Parameter /Pointer /Analyte	Principle / Type	Subject /Matrix /Environment		
1		Strength and extension	Tensile tests	EN ISO 5079	Staple fibres	
				EN ISO 2062	Endless fibres, yarns	
				EN 71-1+A1	Textile toys	
				EN ISO 13934-1	Woven fabrics, Knitted fabrics	
2		Seam thread slippage	Measurement of length	EN ISO 13936-1 EN ISO 13936-2	Woven fabrics, Knitted fabrics	
3		Weight - total linear density  - mass per unit length  - mass per unit area	Gravimetry	EN ISO 1973	Staple fibres	
				EN ISO 2060 (PND 129-135 PND 129-133)	Endless fibres Fibres separated from textile fabrics	
				ISO 3801 EN 12127 EN 29073-1	Woven fabrics Woven fabrics, Knitted fabrics Nonwovens	
4	Fibres, Yarns, Textiles, Textile products, Textile toys	Geometric quantities	Measurement of length and width	EN ISO 6330 EN ISO 5077 EN ISO 3759 EN 1773	Woven fabrics, Knitted fabrics, Clothing products	
5		Construction parameters	Sett - number of threads (visual counting) Determination of number of threads per unit length or area	EN 1049-2	Woven fabrics	
				EN 14971	Knitted fabrics	
6			Colour fastness under user conditions	Determination of change in colour and staining according to grey scale (visual method)	EN ISO 105-C06 EN ISO 105-D01 EN ISO 105-E01 EN ISO 105-E04 EN ISO 105-X11 EN ISO 105-X12 PND 129-139 (STN 80 0055)	Textile fabrics Opinions/interpretations

Related standard: EN ISO 139

 Related standard:  
EN 20105-A02


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7	Textiles, Textile toys, Fibres, Yarns, Plastics	Vertical flammability	Measurement of time and length	EN 71-2	Safety of textile toys
		Horizontal flammability		EN ISO 6940 EN ISO 6941 EN ISO 15025	Textile fabrics Opinions/interpretations
				EN 14878	Clothing products Opinions/interpretations
				ISO 3795 TL 1010 D45 1333 PND 129-106	Materials used in Cars Interior  Preparation of samples
8	Textiles, Textile toys, Fibres, Yarns, Plastics	Flammability Flame spread	Measurement of oxygen index expressed as O <sub>2</sub>	EN ISO 4589-1 EN ISO 4589-2 PND 129-106	% than expressing a fractional volume Opinions/interpretations Preparation of samples
9	Fibres, Textiles, Textile toys	Content of extractable heavy metals in the artificial perspiration	F-AAS	EN 71-3+A1 PND 129-95 (STN 80 0055)	Safety of textiles and textile toys
		Cd		EN ISO 5961 (PND 129-95)	
		Cr		EN 1233 (PND 129-95)	
		Co		ISO 8288 (PND 129-95)	
		Pb			
		Ni			
Cu					
10	Fibres, Textiles	Content of formaldehyde	Spectro- photometry	EN ISO 14184-1	Safety of textile products
11	Surface and waste water, aqueous extract	pH	Potentiometry	EN ISO 10523	Surface and waste water
				EN ISO 3071	Textiles - aqueous extract
12	Surface and waste water	Content of heavy metals	F-AAS	-	Total metals
		Co		ISO 8288 (PND 129-136)	
		Ca		EN ISO 7980 (PND 129-136)	
		Mg		PND 129-136	
		Fe		STN 75 7489 (PND 129-136)	
		Mn		ISO 8288 (PND 129-136)	
		Cu		ISO 8288 (PND 129-136)	
		Cd		ISO 8288 EN ISO 5961 (PND 129-136)	
		Pb		ISO 8288 (PND 129-136)	
		Cr		EN 1233 (PND 129-137)	
Ni	ISO 8288 (PND 129-136)				





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13	Surface and waste water	Chemical oxygen demand of Dichroman (CHSK <sub>Cr</sub> )	Volumetric analysis	ISO 6060 Horáková a kol. (1986) <sup>1)</sup> (PND 129-110)	Surface and waste water
14		Biochemical oxygen demand without Nitrification (BSK <sub>5</sub> )	Volumetric analysis	EN ISO 5815-1 (PND 129-111)	
15		Chromium (Cr <sup>6+</sup> )	Spectrophotometr y	ISO 11083 (PND 129-112)	
16		Dissolved substances (RL <sub>105</sub> )	Gravimetry	STN 75 7373	
	Suspended solids (NL <sub>105</sub> )	EN 872			
17	Fibres, yarns, textiles	Proof of aromatic amines derived from azo colorants <sup>2)</sup> (Qualitative test)	GC/MS	EN ISO 14362-1 EN ISO 14362-3 (PND 129-104 PND 129-105)	
18	Polymers, plastics, fibres, textiles	Identification of substances and materials (Qualitative test)	FT-IR, thermal analysis, microscopy	PND 129-97 <sup>3)</sup> EN ISO 11357-1 EN ISO 3146	Opinions/interpretations

## Notice:

<sup>1)</sup> Horáková a kol., (1986): Chemické a fyzikální metody analýzy vod, SNTL/ALFA Praha, pp. 392, kap. 2.13.2, p. 104-112

<sup>2)</sup> Aromatic amines derived from azo colorants:

4-aminobiphenyl; benzidine; 4-chloro-o-toluidine; 2-naphthylamine; o-aminoazotoluene; 2-amino-4-nitrotoluene; 4-chloroaniline; 4-methoxy-m-phenylenediamine; 4,4'-diaminodiphenylmethane; 3,3'-dichlorobenzidine; 3,3'-dimethoxybenzidine; 3,3'-dimethylbenzidine; 4,4'-methylenedi-o-toluidine; 6-methoxy-m-toluidine; 4,4'-methylene-bis-(2-chloro-aniline); 4,4'-oxydianiline; 4,4'-thiodianiline; o-toluidine; 4-methyl-m-phenylenediamine; 2,4,5-trimethylaniline; 2-methoxyaniline; 4-aminoazobenzene

<sup>3)</sup> Literature:

- [1] Nietsch: Ta for polymer engineering, 1993  
 [2] Brandon Rawling Crystallinity in Polymers, 2009  
 [3] J.B. PATTISON: Programovaný úvod do chromatografie, ALFA, 1979  
 [4] 5973 Network Mass selective Detector, Hardware Manual G2589-90001, 1999, Agilent Technologies  
 [5] Solid Phase microextraction: Theory and Optimization of Conditions, Bulletin 923 A, Supelco Bellefonte

## Abbreviations:

F-AAS Atomic Absorption Spectrometry – Flame Technique

FT-IR Infrared spectroscopy with Fourier transformation

GC/MS Gas chromatography with mass detector

## Personnel competent to express opinions and interpretations

First and last name, titles	Capacity to express opinions and interpretations - - item of activity specification No.
Katarína Holcová, Ing., PhD.	6, 7, 8, 18

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