



MODA - ML

([www.moda-ml.org](http://www.moda-ml.org))

IMPLEMENTATION GUIDE  
TRANSACTION "FABRIC TECHNICAL SHEET"

Process: Fabric supply  
Activity: Choice of fabrics

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XML Schema repository: <http://www.moda-ml.net/moda-ml/repository/schema/v2003-1/default.asp>

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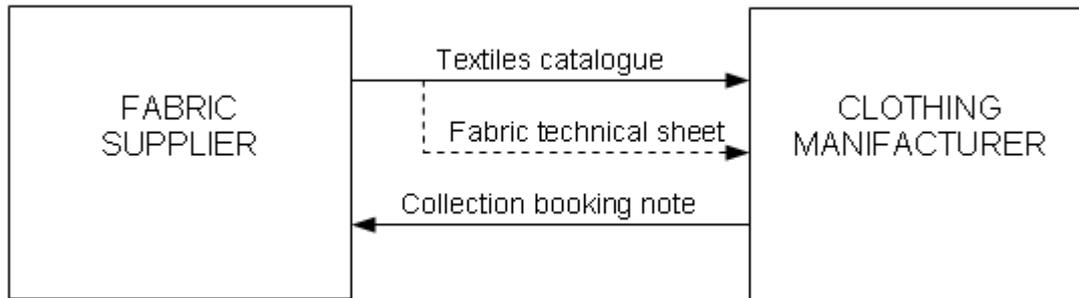
Guide filename: OF51-009-MODA-ML-FabricTechnicalSheet.pdf

# 1. Scope

The present guide has been issued by MODA-ML (an IST-2000 EUTIST-AMI Project) to assist the companies of the Textile-Clothing sector in the implementation of the standard XML document type "FABRIC TECHNICAL SHEET", providing all the instruction required for its use in any context of e-commerce between Apparel Manufactures and Fabric Suppliers.

The XML document class here described can be used to support the transaction "Fabric technical sheet" in the activity "Choice of fabric" of the process "Fabric supply".

All the rules required for the construction and validation of the document are embedded into the specific XML-Schema, which is detailed in section 3.



## 2. General structure of XML document

All the business data that can be exchanged through this class of documents are shown in the following "document structure", that provides a simplified vision of the Schema.

In particular:

- the two numbers following each element define its "cardinality" (minimum and maximum number of occurrences); the minimum equal zero indicates that the element is optional, the minimum greater than zero indicates that is mandatory;
- the bold character denotes the complex elements (aggregates of simple elements) that were built by MODA-ML for the sake of functionality and re-usability of some complex informations sets. The child elements in each parent element are easily spotted as "indented";
- the symbol "@" denotes an attribute of the preceding element; here "the usage indicator (optional, required, ...) is shown in square brackets.

### Structure

#### **TEXSheet**

*@msgfunction [Optional] [Default= OR]*

##### **THeader 1-1**

msgN 1-1

msgDate 1-1

**buyer 0-1**

**supplier 1-1**

note 0-5

##### **TTbody 1-1**

**generalChar 1-1**

**construction 1-1**

**colorFastness 0-1**

**dimensionStability 0-1**

**mechanicalProps 0-1**

### 3. Use of the document

#### 3.1 Generalities

This document is used to provide the Customer (Buyer) with the technical data relevant to describe and characterize the fabric article; i.e.:

- general data
- construction details
- measurements of color fastness, dimensional stability and mechanical properties

## 3.2 Detailed description of document elements

### TEXSheet

*@msgfunction [Optional] [Default= OR]*

#### **TTheader 1-1**

msgN 1-1

msgDate 1-1

#### **buyer 0-1**

*@logo [Optional]*

id 1-1

*@numberingOrg [Optional]*

legalName 0-1

dept 0-1

person 0-1

*@email [Optional]*

street 0-1

city 0-1

subCountry 0-1

country 0-1

postCode 0-1

#### **supplier 1-1**

*@logo [Optional]*

id 1-1

*@numberingOrg [Optional]*

legalName 0-1

dept 0-1

person 0-1

*@email [Optional]*

street 0-1

city 0-1

subCountry 0-1

country 0-1

postCode 0-1

note 0-5

<b>TEXSheet</b>	
<i>@msgfunction [Optional] [Default= OR]</i>	message function function performed by the present message with regards to the transmission - base type: string, cod. table: NT18, (XPath: TEXSheet/@msgfunction)
<b>TTheader 1-1</b>	TT header Header of the document "Fabric technical sheet" - (XPath: TEXSheet/TTheader)
msgN 1-1	message identifier identification number given to the message by its issuer - base type: string, max length: 25, (XPath: TEXSheet/TTheader/msgN)
msgDate 1-1	message date date of issue of the present message (xml document)

	- base type: date, (XPath: <a href="#">TEXSheet/TTheader/msgDate</a> )
<b>buyer 0-1</b>	Buyer details of the Buyer - base type: Nad, (XPath: <a href="#">TEXSheet/TTheader/buyer</a> )
<i>@logo [Optional]</i>	party logo company logo (URL of the image jpeg or gif). It is recommended that the width of the image does not exceed 640 pixel. - base type: string, max length: 255, (XPath: <a href="#">TEXSheet/TTheader/buyer/@logo</a> )
id 1-1	Party identifier primary identification code of the Party - base type: string, max length: 15, (XPath: <a href="#">TEXSheet/TTheader/buyer/id</a> )
<i>@numberingOrg [Optional]</i>	numbering organisation code Party who has created or owns the coding or numbering system - base type: string, cod. table: NT6, (XPath: <a href="#">TEXSheet/TTheader/buyer/id/@numberingOrg</a> )
legalName 0-1	Legal name legal name of the Party - base type: string, max length: 80, (XPath: <a href="#">TEXSheet/TTheader/buyer/legalName</a> )
dept 0-1	department identifier name or code of the department within the Party - base type: string, max length: 40, (XPath: <a href="#">TEXSheet/TTheader/buyer/dept</a> )
person 0-1	contact person name name of the contact person within the Party - base type: string, max length: 40, (XPath: <a href="#">TEXSheet/TTheader/buyer/person</a> )
<i>@email [Optional]</i>	e-mail electronic mail address - base type: string, max length: 80, (XPath: <a href="#">TEXSheet/TTheader/buyer/person/@email</a> )
street 0-1	street and building identifier street and building number identifying the location of the Party - base type: string, max length: 80, (XPath: <a href="#">TEXSheet/TTheader/buyer/street</a> )
city 0-1	city name name of the city (town, village) where the Party is located - base type: string, max length: 40, (XPath: <a href="#">TEXSheet/TTheader/buyer/city</a> )
subCountry 0-1	sub-country code short name or code of the sub-country entity - base type: string, max length: 9, (XPath: <a href="#">TEXSheet/TTheader/buyer/subCountry</a> )
country 0-1	country code code of the nation where the Party is located - base type: string, cod. table: T10, (XPath: <a href="#">TEXSheet/TTheader/buyer/country</a> )
postCode 0-1	postal zone code

	code defining the postal zone - base type: string, max length: 10, (XPath: TEXSheet/TTheader/buyer/postCode)
<b>supplier 1-1</b>	Supplier details of the Supplier - base type: Nad, (XPath: TEXSheet/TTheader/supplier)
@logo [Optional]	party logo company logo (URL of the image jpeg or gif). It is recommended that the width of the image does not exceed 640 pixel. - base type: string, max length: 255, (XPath: TEXSheet/TTheader/supplier/@logo)
id 1-1	Party identifier primary identification code of the Party - base type: string, max length: 15, (XPath: TEXSheet/TTheader/supplier/id)
@numberingOrg [Optional]	numbering organisation code Party who has created or owns the coding or numbering system - base type: string, cod. table: NT6, (XPath: TEXSheet/TTheader/supplier/id/@numberingOrg)
legalName 0-1	Legal name legal name of the Party - base type: string, max length: 80, (XPath: TEXSheet/TTheader/supplier/legalName)
dept 0-1	department identifier name or code of the department within the Party - base type: string, max length: 40, (XPath: TEXSheet/TTheader/supplier/dept)
person 0-1	contact person name name of the contact person within the Party - base type: string, max length: 40, (XPath: TEXSheet/TTheader/supplier/person)
@email [Optional]	e-mail electronic mail address - base type: string, max length: 80, (XPath: TEXSheet/TTheader/supplier/person/@email)
street 0-1	street and building identifier street and building number identifying the location of the Party - base type: string, max length: 80, (XPath: TEXSheet/TTheader/supplier/street)
city 0-1	city name name of the city (town, village) where the Party is located - base type: string, max length: 40, (XPath: TEXSheet/TTheader/supplier/city)
subCountry 0-1	sub-country code short name or code of the sub-country entity - base type: string, max length: 9, (XPath: TEXSheet/TTheader/supplier/subCountry)
country 0-1	country code code of the nation where the Party is located - base type: string, cod. table: T10, (XPath: TEXSheet/TTheader/supplier/country)

postCode 0-1	postal zone code code defining the postal zone - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/THeader/supplier/postCode</a> )
note 0-5	free text free text note - base type: string, max length: 350, (XPath: <a href="#">TEXSheet/THeader/note</a> )

## **TTbody 1-1**

### **generalChar 1-1**

fabricNameSupplier 1-1

fabricNameBuyer 0-1

season 0-1

tradeMark 0-1

customsStat 0-1

### **fabricCompos 1-1**

percCompos 1-9

*@fibre [Required]*

dyeProcess 0-1

dyeStuff 0-1

careLabel 0-1

minLot 0-1

*@um [Required]*

### **construction 1-1**

fabricWeightM 1-1

*@um [Optional] [Default= GRM]*

fabricWeightM2 0-1

*@um [Optional] [Default= GRM]*

fabricWidth 0-1

*@um [Optional] [Default= CMT]*

fabricCutWidth 1-1

*@um [Optional] [Default= CMT]*

pieceLength 0-1

*@um [Optional] [Default= MTR]*

weave 0-1

warpCount 0-9

*@method [Optional] [Default= ISO-2060]*

*@fibre [Optional]*

weftCount 0-9

*@method [Optional] [Default= ISO-2060]*

*@fibre [Optional]*

warpEndsN 0-1

weftEndsN 0-1

### **colorFastness 0-1**

CFlight 0-1

*@method [Optional] [Default= ISO-105-B02]*

CFwater 0-1

*@method [Optional] [Default= ISO-105-E01]*

CFwash 0-1

*@method [Optional] [Default= ISO-105-C06]*

CFdryClean 0-1  
@method [Optional] [Default= ISO-105-D01]  
CFperspirAcid 0-1  
@method [Optional] [Default= ISO-105-E04]  
CFperspirAlk 0-1  
@method [Optional] [Default= ISO-105-E04]  
CFrubDry 0-1  
@method [Optional] [Default= ISO-105-X12]  
CFrubWet 0-1  
@method [Optional] [Default= ISO-105-X12]  
CFrubOrgSolv 0-1  
@method [Optional] [Default= ISO-105-D02]  
CFironDry 0-1  
@method [Optional] [Default= ISO-105-X11]  
CFironWet 0-1  
@method [Optional] [Default= ISO-105-X11]  
CFspotWater 0-1  
@method [Optional] [Default= ISO-105-E07]  
CFxeno 0-1  
@method [Optional] [Default= ISO-105-E01]

#### **dimensionStability 0-1**

DSsteamLength 0-1  
@method [Optional] [Default= DIN-53894-2]  
DSsteamWidth 0-1  
@method [Optional] [Default= DIN-53894-2]  
DSwashLength 0-1  
@method [Optional] [Default= ISO-5077/6330]  
DSwashWidth 0-1  
@method [Optional] [Default= ISO-5077/6330]  
DSdryCleanLength 0-1  
@method [Optional] [Default= ISO-3175]  
DSdryCleanWidth 0-1  
@method [Optional] [Default= ISO-3175]

#### **mechanicalProps 0-1**

MPseamSlipWarp 0-3  
@method [Optional] [Default= NFG-7117]  
@application [Optional]  
MPseamSlipWeft 0-3  
@method [Optional] [Default= NFG-7117]  
@application [Optional]  
MPbreakWarp 0-1  
@method [Optional] [Default= ISO-1394-1]  
MPbreakWeft 0-1  
@method [Optional] [Default= ISO-1394-1]  
MPabrasion 0-3  
@method [Optional] [Default= EN-12947]  
@application [Optional]  
MPpilling 0-3  
@method [Optional] [Default= UNI-E-1512434]  
@application [Optional]  
MPcrease 0-1  
@method [Optional] [Default= ISO-9867]

MPelastWarp 0-3  
 @method [Optional] [Default= BS 4294-68]  
 @application [Optional]  
 MPelastWeft 0-3  
 @method [Optional] [Default= BS 4294-68]  
 @application [Optional]

<b>TTbody 1-1</b>	TT body body of the document "Fabric technical sheet" - (XPath: <a href="#">TEXSheet/TTbody</a> )
<b>generalChar 1-1</b>	General characteristics general data included in the technical sheet of the fabric article - (XPath: <a href="#">TEXSheet/TTbody/generalChar</a> )
fabricNameSupplier 1-1	Supplier fabric name name given to the fabric (article/pattern) by the Supplier - base type: string, max length: 70, (XPath: <a href="#">TEXSheet/TTbody/generalChar/fabricNameSupplier</a> )
fabricNameBuyer 0-1	Buyer fabric name name given to the fabric (article/pattern) by the Buyer - base type: string, max length: 70, (XPath: <a href="#">TEXSheet/TTbody/generalChar/fabricNameBuyer</a> )
season 0-1	season identifier sale season; represented as a) season (Spring/Summer=1; Autumn/Winter=2) + b) year - base type: string, length: 5, (XPath: <a href="#">TEXSheet/TTbody/generalChar/season</a> )
tradeMark 0-1	trademark name name of the official trademark - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/generalChar/tradeMark</a> )
customsStat 0-1	customs code statistic code assigned by Customs - base type: string, max length: 15, (XPath: <a href="#">TEXSheet/TTbody/generalChar/customsStat</a> )
<b>fabricCompos 1-1</b>	fabric composition composition of the fabric according to the Directory 97/37/CE - (XPath: <a href="#">TEXSheet/TTbody/generalChar/fabricCompos</a> )
percCompos 1-9	composition rate fiber rate in the fabric composition - base type: positiveInteger, min inclusive: 1, max inclusive: 100, fraction digits: 0, (XPath: <a href="#">TEXSheet/TTbody/generalChar/fabricCompos/percCompos</a> )
@fibre [Required]	textiles fibre code type of textiles fibre - base type: string, cod. table: T19, (XPath: <a href="#">TEXSheet/TTbody/generalChar/fabricCompos/percCompos/@fibre</a> )
dyeProcess 0-1	dye process code dye process applied to the fabric - base type: string, cod. table: T15,

	(XPath: <a href="#">TEXSheet/TTbody/generalChar/dyeProcess</a> )
dyeStuff 0-1	dye stuff code dye stuff used in the fabric dye process - base type: string, cod. table: T16, (XPath: <a href="#">TEXSheet/TTbody/generalChar/dyeStuff</a> )
careLabel 0-1	care labelling code codification of the care instructions printed on the label (ISO 3758) - base type: string, length: 5, - note: <i>code composition: 1st digit=id.symbol umid washing, 2nd=id.s.bleaching, 3rd=id.s.ironing, 4th=id.s. dry washing, 5th=id.s. drying. See ATTACHMENT B.</i> (XPath: <a href="#">TEXSheet/TTbody/generalChar/careLabel</a> )
minLot 0-1	minimum order quantity minimum order quantity specified by the Supplier - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: <a href="#">TEXSheet/TTbody/generalChar/minLot</a> )
@um [Required]	unit of measure code specification of the unit of measure - base type: string, cod. table: NT7, (XPath: <a href="#">TEXSheet/TTbody/generalChar/minLot/@um</a> )
<b>construction 1-1</b>	Construction details details of fabric construction - (XPath: <a href="#">TEXSheet/TTbody/construction</a> )
fabricWeightM 1-1	fabric weightM measure weight per metre of the fabric as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: <a href="#">TEXSheet/TTbody/construction/fabricWeightM</a> )
@um [Optional] [Default= GRM]	unit of measure code specification of the unit of measure - base type: string, cod. table: NT7, (XPath: <a href="#">TEXSheet/TTbody/construction/fabricWeightM/@um</a> )
fabricWeightM2 0-1	fabric weighM2 measure weight per square metre of the fabric as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: <a href="#">TEXSheet/TTbody/construction/fabricWeightM2</a> )
@um [Optional] [Default= GRM]	unit of measure code specification of the unit of measure - base type: string, cod. table: NT7, (XPath: <a href="#">TEXSheet/TTbody/construction/fabricWeightM2/@um</a> )
fabricWidth 0-1	fabric width measure width of the fabric as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: <a href="#">TEXSheet/TTbody/construction/fabricWidth</a> )
@um [Optional] [Default= CMT]	unit of measure code specification of the unit of measure - base type: string, cod. table: NT7, (XPath: <a href="#">TEXSheet/TTbody/construction/fabricWidth/@um</a> )
fabricCutWidth 1-1	fabric cutting width measure usable width of the fabric (for garments manufacturing) as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: <a href="#">TEXSheet/TTbody/construction/fabricCutWidth</a> )

<i>@um [Optional]</i> <i>[Default= CMT]</i>	unit of measure code specification of the unit of measure - base type: string, cod. table: NT7, (XPath: <a href="#">TEXSheet/TTbody/construction/fabricCutWidth/@um</a> )
pieceLength 0-1	piece length measure length of the piece - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: <a href="#">TEXSheet/TTbody/construction/pieceLength</a> )
<i>@um [Optional]</i> <i>[Default= MTR]</i>	unit of measure code specification of the unit of measure - base type: string, cod. table: NT7, (XPath: <a href="#">TEXSheet/TTbody/construction/pieceLength/@um</a> )
weave 0-1	weave code type of weaving used in the manufacturing of fabric - base type: string, cod. table: T17, (XPath: <a href="#">TEXSheet/TTbody/construction/weave</a> )
warpCount 0-9	warp count measure of thinness of the warp thread - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/construction/warpCount</a> )
<i>@method [Optional]</i> <i>[Default= ISO-2060]</i>	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/construction/warpCount/@method</a> )
<i>@fibre [Optional]</i>	textiles fibre code type of textiles fibre - base type: string, cod. table: T19, (XPath: <a href="#">TEXSheet/TTbody/construction/warpCount/@fibre</a> )
weftCount 0-9	weft count measure of thinness of the weft thread - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/construction/weftCount</a> )
<i>@method [Optional]</i> <i>[Default= ISO-2060]</i>	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/construction/weftCount/@method</a> )
<i>@fibre [Optional]</i>	textiles fibre code type of textiles fibre - base type: string, cod. table: T19, (XPath: <a href="#">TEXSheet/TTbody/construction/weftCount/@fibre</a> )
warpEndsN 0-1	num ends warp number of warp threads in 1 centimetre - base type: decimal, min inclusive: 0, fraction digits: 1, (XPath: <a href="#">TEXSheet/TTbody/construction/warpEndsN</a> )
weftEndsN 0-1	num ends weft number of weft threads in 1 centimetre - base type: decimal, min inclusive: 0, fraction digits: 1, (XPath: <a href="#">TEXSheet/TTbody/construction/weftEndsN</a> )
<b>colorFastness 0-1</b>	Color fastness details of color fastness measures of fabric

	- (XPath: <a href="#">TEXSheet/TTbody/colorFastness</a> )
CFlight 0-1	fastness to light measure of color fastness to light - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFlight</a> )
@method [Optional] [Default= ISO-105-B02]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFlight/@method</a> )
CFwater 0-1	fastness to water measure of color fastness to water - base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, divided by ";"</i> (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFwater</a> )
@method [Optional] [Default= ISO-105-E01]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFwater/@method</a> )
CFwash 0-1	fastness to washing measure of color fastness to washing - base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, divided by ";"</i> (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFwash</a> )
@method [Optional] [Default= ISO-105-C06]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFwash/@method</a> )
CFdryClean 0-1	fastness to drycleaning measur of color fastness to dry cleaning - base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, divided by ";"</i> (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFdryClean</a> )
@method [Optional] [Default= ISO-105-D01]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFdryClean/@method</a> )
CFperspirAcid 0-1	fastness to acid perspiration measure of color fastness to acid perspiration - base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, divided by ";"</i> (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFperspirAcid</a> )
@method [Optional] [Default= ISO-105-	test method identifier standard protocol or method employed in a test to evaluate a characteristic

E04]	<p>or a parameter</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 25,</li> </ul> <p>(XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFperspirAcid/@method</a>)</p>
CFperspirAlk 0-1	<p>fastness to alkaline perspiration measure of color fastness to alkaline perspiration</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, divided by ";"</i></li> </ul> <p>(XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFperspirAlk</a>)</p>
@method [Optional] [Default= ISO-105-E04]	<p>test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 25,</li> </ul> <p>(XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFperspirAlk/@method</a>)</p>
CFrubDry 0-1	<p>fastness to dryrubbing measure of color fastness to dry rubbing</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, divided by ";"</i></li> </ul> <p>(XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFrubDry</a>)</p>
@method [Optional] [Default= ISO-105-X12]	<p>test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 25,</li> </ul> <p>(XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFrubDry/@method</a>)</p>
CFrubWet 0-1	<p>fastness to wetrubbing measure of color fastness to wet rubbing</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, divided by ";"</i></li> </ul> <p>(XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFrubWet</a>)</p>
@method [Optional] [Default= ISO-105-X12]	<p>test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 25,</li> </ul> <p>(XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFrubWet/@method</a>)</p>
CFrubOrgSolv 0-1	<p>fastness to rubbing org. solv. measure of color fastness to rubbing with organic solvents</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, divided by ";"</i></li> </ul> <p>(XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFrubOrgSolv</a>)</p>
@method [Optional] [Default= ISO-105-D02]	<p>test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 25,</li> </ul> <p>(XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFrubOrgSolv/@method</a>)</p>
CFironDry 0-1	<p>fastness to dryironing measure of color fastness to dry ironing</p> <ul style="list-style-type: none"> <li>- base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, divided by ";"</i></li> </ul>

	(XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFironDry</a> )
@method [Optional] [Default= ISO-105-X11]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFironDry/@method</a> )
CFironWet 0-1	fastness to wetironing measure of color fastness to wet ironing - base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";"</i> (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFironWet</a> )
@method [Optional] [Default= ISO-105-X11]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFironWet/@method</a> )
CFspotWater 0-1	fastness to spotting water measure of color fastness to spotting water - base type: string, max length: 10, - note: <i>when the test foresees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";"</i> (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFspotWater</a> )
@method [Optional] [Default= ISO-105-E07]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFspotWater/@method</a> )
CFxeno 0-1	fastness to Xeno light measure of color fastness to Xeno-light - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFxeno</a> )
@method [Optional] [Default= ISO-105-E01]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/colorFastness/CFxeno/@method</a> )
<b>dimensionStability 0-1</b>	Dimensional stability details of dimensional stability measures of fabric - (XPath: <a href="#">TEXSheet/TTbody/dimensionStability</a> )
DSsteamLength 0-1	stability to steamingpress length measure of dimensional stability to steaming press (length) - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSsteamLength</a> )
@method [Optional] [Default= DIN-53894-2]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSsteamLength/@method</a> )
DSsteamWidth 0-1	stability to steamingpress width measure of dimensional stability to steaming press (width)

	- base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSsteamWidth</a> )
@method [Optional] [Default= DIN-53894-2]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSsteamWidth/@method</a> )
DSwashLength 0-1	stability to washing length measure of dimensional stability to washing (length) - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSwashLength</a> )
@method [Optional] [Default= ISO-5077/6330]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSwashLength/@method</a> )
DSwashWidth 0-1	stability to washing width measure of dimensional stability to washing (width) - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSwashWidth</a> )
@method [Optional] [Default= ISO-5077/6330]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSwashWidth/@method</a> )
DSdryCleanLength 0-1	stability to drycleaning length measure of dimensional stability to dry cleaning (length) - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSdryCleanLength</a> )
@method [Optional] [Default= ISO-3175]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSdryCleanLength/@method</a> )
DSdryCleanWidth 0-1	stability to drycleaning width measure of dimensional stability to dry cleaning (width) - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSdryCleanWidth</a> )
@method [Optional] [Default= ISO-3175]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/dimensionStability/DSdryCleanWidth/@method</a> )
<b>mechanicalProps 0-1</b>	Mechanical properties details of measurements of the mechanical properties of fabric - (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps</a> )
MPseamSlipWarp 0-3	seam slippage warp measure of the seam slippage (warp) - base type: string, max length: 10, - note: <i>the data can be iterated when several measurements related to different applied forces or conditions occur.</i>

	(XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPseamSlipWarp</a> )
@method [Optional] [Default= NFG-7117]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPseamSlipWarp/@method</a> )
@application [Optional]	application measure force or similar condition (e.g. no. of revolutions) applied in a test as specified within the standard - base type: string, max length: 15, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPseamSlipWarp/@application</a> )
MPseamSlipWeft 0-3	seam slippage weft measure of the seam slippage (weft) - base type: string, max length: 10, - note: <i>the data can be iterated when several measurements related to different applied forces or conditions occur.</i> (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPseamSlipWeft</a> )
@method [Optional] [Default= NFG-7117]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPseamSlipWeft/@method</a> )
@application [Optional]	application measure force or similar condition (e.g. no. of revolutions) applied in a test as specified within the standard - base type: string, max length: 15, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPseamSlipWeft/@application</a> )
MPbreakWarp 0-1	break strength warp measure of the break strength (warp) - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPbreakWarp</a> )
@method [Optional] [Default= ISO-1394-1]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPbreakWarp/@method</a> )
MPbreakWeft 0-1	break strength weft measure of the break strength (weft) - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPbreakWeft</a> )
@method [Optional] [Default= ISO-1394-1]	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPbreakWeft/@method</a> )
MPabrasion 0-3	abrasion resistance measure of abrasion resistance - base type: string, max length: 10, - note: <i>the data can be iterated when several measurements related to different applied forces or conditions occur.</i> (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPabrasion</a> )
@method [Optional]	test method identifier

<i>[Default= EN-12947]</i>	standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPabrasion/@method</a> )
<i>@application [Optional]</i>	application measure force or similar condition (e.g. no. of revolutions) applied in a test as specified within the standard - base type: string, max length: 15, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPabrasion/@application</a> )
MPpilling 0-3	pilling resistance measure of pilling resistance - base type: string, max length: 10, - note: <i>the data can be iterated when several measurements related to different applied forces or conditions occur.</i> (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPpilling</a> )
<i>@method [Optional]</i> <i>[Default= UNI-E-1512434]</i>	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPpilling/@method</a> )
<i>@application [Optional]</i>	application measure force or similar condition (e.g. no. of revolutions) applied in a test as specified within the standard - base type: string, max length: 15, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPpilling/@application</a> )
MPcrease 0-1	crease recovery crease recovery measure of the fabric after induced wrinkling - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPcrease</a> )
<i>@method [Optional]</i> <i>[Default= ISO-9867]</i>	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPcrease/@method</a> )
MPelastWarp 0-3	elasticity warp measure of the elasticity (warp) - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPelastWarp</a> )
<i>@method [Optional]</i> <i>[Default= BS 4294-68]</i>	test method identifier standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPelastWarp/@method</a> )
<i>@application [Optional]</i>	application measure force or similar condition (e.g. no. of revolutions) applied in a test as specified within the standard - base type: string, max length: 15, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPelastWarp/@application</a> )
MPelastWeft 0-3	elasticity weft measure of the elasticity (weft) - base type: string, max length: 10, (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPelastWeft</a> )

<p><i>@method [Optional]</i>  <i>[Default= BS 4294-68]</i></p>	<p>test method identifier  standard protocol or method employed in a test to evaluate a characteristic or a parameter  - base type: string, max length: 25,  (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPelastWeft/@method</a>)</p>
<p><i>@application [Optional]</i></p>	<p>application measure  force or similar condition (e.g. no. of revolutions) applied in a test as specified within the standard  - base type: string, max length: 15,  (XPath: <a href="#">TEXSheet/TTbody/mechanicalProps/MPelastWeft/@application</a>)</p>

## 4. Enumeration tables

List of enumeration tables used in the XML document. You can find the corresponding codes in the attachment labeled "A", for tables with 100 values or less.

NT18 - message function

NT6 - Product coding qualifier

T10 - ISO3166 - Country

T19 - fibre type

T15 - Dye process type

T16 - Dyestuff type

NT7 - Unity of measure

T17 - Weave type

## 5. Credits

This guide has been realized for MODA-ML project by Guido Cucchiara, PROGEMA- gruppo SOI, supported by Thomas Imolesi, XML-Lab (initiative from ENEA and Forum per la Tecnologia dell'Informazione).

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More informations can be acquired in <http://www.moda-ml.org>.

## Attachment A

### NT18 - message function

CP	copy
OR	original
RT	re-transmission

### NT6 - Product coding qualifier

CL	Customer/buyer
CO	Quality Controller
EN	EAN
FO	Supplier
MF	VAT identifier

### T10 - ISO3166 - Country

Table not printed: there are 239 elements, more than the maximum specified (100) for printing.

### T19 - fibre type

AC	
AF	
AG	
CA	
CL	
CO	
CU	
EA	
FL	
GL	
HL	
JU	
LI	
MA	
MD	
ME	
PA	
PB	
PC	
PE	
PL	
PM	
PP	
PR	
PU	

SE	
TA	
TV	
VI	
VY	
WA	
WC	
WG	
WK	
WL	
WM	
WO	wool
WP	
WS	
WU	
WV	
WY	

**T15 - Dye process type**

CP	cylinder printing
DP	discharge printing
FI	fibre dyed
PC	piece dyed
PR	printing
SP	screen printing
YR	yarn dyed

**T16 - Dyestuff type**

AC	chrome acid dyestuff
AN	acid dyestuff
CA	basic dyestuff
DI	direct dyestuff
DS	dispersive dyestuff
NP	naphtol dyestuff
PM	premetallized dyestuff
RE	reactive dyestuff

**NT7 - Unity of measure**

CMT	centimetre
GRM	gram
INH	inch
KGM	kilogram
LBR	pound

MTR	metre
NMB	numero
ONZ	ounce
PZ	piece
YRD	yard

**T17 - Weave type**

BA	2/2 twill weave
BE	birdseye weave
CO	corduroy weave
DE	derived weave
DO	double weave
GA	gauze
GR	granite weave
HO	honeycomb weave
HS	hopsack weave
MA	mat weave
PL	plain weave
SA	satin weave
TO	towel weave
TR	tricot weave
TW	twill weave
V	V-weave
W	W-weave