INTERNATIONAL STANDARD

ISO
10685-1

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Ophthalmic optics — Spectacle frames and sunglasses electronic catalogue and identification —

Part 1:
Product identification and electronic catalogue product hierarchy

Optique ophtalmique — Catalogue de montures de lunettes et de lunettes de soleil et identification —

Partie 1: Identification des produits et hiérarchie des catalogues électroniques

Reference number
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Contents

Page

Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 10685-1 was prepared by Technical Committee ISO/TC 172, *Optics and photonics*, Subcommittee SC 7, *Ophthalmic optics and instruments*.

ISO 10685 consists of the following parts, under the general title *Ophthalmic optics — Spectacle frames and sunglasses electronic catalogue and identification*:

— *Part 1: Product identification and electronic catalogue product hierarchy*

— *Part 2: Commercial information*

— *Part 3: Technical information*

Ophthalmic optics — Spectacle frames and sunglasses electronic catalogue and identification —

Part 1:
Product identification and electronic catalogue product hierarchy

1   Scope

This part of ISO 10685 establishes rules and requirements for the definition of a unique identifier for spectacle frames and sunglass frames, and specifies the data information and file format used for identifying spectacle frames and sunglass frames.

It is applicable to sunglass clip-ons.

2   Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 4217, *Codes for the representation of currencies and funds*

ISO 8624, *Ophthalmic optics — Spectacle frames — Measuring system and terminology*

ISO 12870:—[1]), *Ophthalmic optics — Spectacle frames — Requirements and test methods*

3   Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1
brand/license owner
company owning or licensed for a brand name

4   Abbreviated terms

GS1   Global Standards 1, a global organization dedicated to the design and implementation of global standards and solutions to improve the efficiency and visibility of supply and demand chains globally and across sectors.

GTIN™[2)]   Global Trade Item Number™, used for the unique identification of trade items worldwide.

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1)   To be published. (Revision of ISO 12870:2004)

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5   Frame identifier structure

5.1   GTIN-14

For the use of this part of ISO 10685, GTIN data exchange requires the use of 14 digits. In databases, it is recommended to manage a 14-digit field to comply with the identification of logistical units in the future.

The GTIN-14 standard is defined as the unique 14-digit identifier for items; it includes, in sequence, the following.

5.1.1   Indicator digit

The indicator digit is a one-digit logistical code. For the purposes of this part of ISO 10685, it is always set to zero (0). Future use of this indicator code may identify groupings of trade items according to GS1 standards.

5.1.2   Country code

The country code is the country code corresponding to the GS1 regional organization of which the brand/license owner is a member.

5.1.3   Brand/license owner code — Company prefix

The brand/license owner code is a code allocated to the brand owner by the GS1 regional organization of which the brand owner is a member.

5.1.4   Product code

Product codes are unique numbers. The value for product code is arbitrary and is at the discretion of the brand/license owner.

5.2   Rules of application

5.2.1   General rules

5.2.1.1   Spectacle frames

A separate unique GTIN-14 is required whenever any of the basic characteristics of a frame are different in any way.

The basic characteristics of a spectacle frame are given in Table 1.

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2)   GTIN is the trademark identifier for trade items (which encompass both products and services) and is supplied by the GS1 System. This information is given for the convenience of users of this document and does not constitute an endorsement by ISO of the product/service identifier named. Equivalent products may be used if they can be shown to lead to the same results.

Table 1 — Basic characteristics of a spectacle frame

Characteristic
Brand
Collection
Model
Colour
asize
dsize
lsize

A brand/license owner may decide to assign a separate GTIN-14 number in case any other physical or logistical characteristic of a spectacle frame is different (namely, lens shape, frame material, etc.).

5.2.1.2   Sunglass frames

A separate unique GTIN-14 is required whenever any of the basic characteristics of sunglass frames are different in any way.

The basic characteristics of a sunglass frame are given in Table 2.

Table 2 — Basic characteristics of a sunglass frame

Characteristic
Brand
Collection
Model
Colour
asize
dsize
lsize
Lens

A brand/license owner may decide to assign a separate GTIN-14 number in case any other physical or logistical characteristic of a sunglass frame is different (namely, lens shape, frame material, etc.).

5.2.2   Responsibility

The brand/license owner, the organization which owns the specifications of the frame regardless of where and by whom it is manufactured, is responsible for the allocation of the GTIN-14. On joining a GS1 member organization, the member receives a GS1 company prefix, which is for the sole use of the company to which it is assigned. The company prefix shall not be sold, leased or given, in whole or in part, for use by any other company.

The brand/license owner may be:

— the manufacturer or supplier: the company manufactures the frame or has it manufactured, in any country, and sells it under its own brand name;

— the importer or wholesaler: the importer or wholesaler has the frame manufactured, in any country, and sells it under its own brand name or the importer or wholesaler changes the trade item (for example by modifying the packaging of the trade item);

— the retailer: the retailer has the frame manufactured, in any country, and sells it under its own brand.

5.2.3   Re-use of a GTIN-14

Under no circumstances shall a code which has been assigned to a product be re-used at a later stage.

5.2.4   Brand/license ownership changes

5.2.4.1   Acquisitions and mergers

If a company is being acquired, the company's existing stocks on hand, which are numbered before the acquisition or merger, keep the same GTIN-14. Products that are produced after the acquisition or merger may keep the GTIN-14 allocated before the acquisition if the acquiring company maintains the GS1 membership.

A merger implies that someone has taken over a company and has assumed responsibility for the company's GS1 company prefix, as well as its assets and locations. Products that the acquired company produced under its GS1 company prefix may continue to be produced using the same prefix following the merger, since the acquiring company has full control.

If it so desired, the acquiring company may label all acquired products using their existing GS1 company prefix. The importance of ensuring trading partners are informed of any changes, in a timely manner, cannot be overemphasized. A company should be careful when centralizing the allocation of all numbers under one GS1 company prefix as it results in additional work and data file maintenance for customers.

5.2.4.2   Partial purchase

If a company purchases a division of a company whose GS1 company prefix is used in divisions not purchased, the acquiring company shall change the GTIN-14 in the purchased division within one year. The rules concerning the use of the seller's GTIN-14s and other GS1 identification keys should be taken into consideration when drawing up the purchase contract.

At the earliest opportunity, the buyer should phase in new numbers, from its own range of numbers, for items whose brand name it has acquired. The buyer is able to do this, for example, when packaging is redesigned or reprinted.

During a company sale, and for four years following, the selling company shall not reallocate the original numbers to other items.

5.2.4.3   Split or spin-off

When a company splits into two or more separate companies each GS1 company prefix assigned to the original company shall be transferred to only one of the new companies. Any company left without a GS1 company prefix needs to apply to a GS1 member organization. The decision about which of the new companies should take the original GS1 company prefixes should be made in such a way as to minimize the number of additional GTIN-14s required. The decision should be part of the legal arrangements of the new companies.

It is not necessary for existing stocks of items to be renumbered. However, when any of the split or spin-off companies has trade items which are numbered with a GS1 company prefix that it no longer holds, the company should renumber those items using its own GS1 company prefix when new labelling or packaging is produced. Customers should be notified well in advance of the changes.

Split or spin-off companies that retain a GS1 company prefix shall keep a record of the GTIN-14s created which have been allocated to items they no longer own. They shall not re-use these GTIN-14s. Therefore, the company that did not retain the GS1 company prefix shall keep the company which now maintains it informed of the dates on which goods were last supplied using that GS1 company prefix or shall guarantee a date by which it is intended to make the change of number.

6 Identification data for frames item catalogue

Tables 3 to 5 specify the fields used to identify the electronic frame item catalogue (see Table 3) and an item within a frame catalogue (see Tables 4 and 5). Additional information and examples are available in Annex A.

— The "name" column defines the tag and attribute names within the XML file (see Annex B for schema definition).

— The "O/M" column indicates whether a field is optional (O) or mandatory (M).

— The "format" column indicates the data type, e.g.: TEXT.

— The "length" column indicates the field character length.

— The "description" column gives the description of the field.

Table 3 — Identification of an electronic frame item catalogue

Name	O/M	Format	Length	Description
Test	M	BOOLEAN	1	Identifier of test catalogue
Cdate	M	DATETIME	25	Catalogue date and time
Cvers	M	TEXT	max 25	Catalogue version
Sendcode	M	TEXT	max. 40	Legal name of the catalogue provider
Sendname	O	TEXT	max. 40	Contact name of the catalogue provider
Senddetails	O	TEXT	max. 200	Contact details of the catalogue provider
Cname	M	TEXT	35	Catalogue name
Crev	O	TEXT	6	Revision of catalogue version
Cid	M	TEXT	16	Catalogue identifier
Cstartdate	M	DATE	10	Catalogue start date
Cenddate	O	DATE	10	Catalogue end date
Supcode	M	TEXT	max. 25	Item supplier code
supcodequalifier	M	TEXT	max. 255	URI of item supplier code registrar
Supname	M	TEXT	max. 40	Item supplier legal name
Reccode	O	TEXT	max. 25	Catalogue recipient code
reccodequalifier	O	TEXT	max. 255	URI of catalogue recipient code registrar
Recname	O	TEXT	max. 40	Catalogue recipient legal name
Currcode	M	TEXT	max. 3	Currency for selling price

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Table 4 — Identification of a spectacle frame item within an electronic frame catalogue

Name	O/M	Format	Length	Description
Gtin14	M	TEXT	14	GTIN
Mancode	M	TEXT	max. 40	Legal manufacturer
Downer	O	TEXT	max. 40	Data owner
Pclass	M	TEXT	max. 255	Code of the product class to which the frame item belongs within the frame classification
Mcode	M	TEXT	max. 25	Model code
Mdesc	O	TEXT	max. 25	Frame item marking
Snmb	O	BOOLEAN	1	Serial number
Datastatus	M	TEXT	1	Frame item data status
Dataupdatedate	M	DATETIME	25	Frame item update date
Bndcod	O	TEXT	max. 3	Brand code
Bnddes	O	TEXT	max. 25	Brand description
Collcod	O	TEXT	max. 3	Collection code
Colldes	O	TEXT	max. 25	Collection description
Ccode	O	TEXT	max. 10	Harmonized code system
Mcolc	M	TEXT	max. 6	Colour code
asize	M	INTEGER	max. 3	Nominal horizontal lens size (mm)
dsize	M	INTEGER	max. 2	Nominal distance between lenses (mm)
lsize	M	INTEGER	max. 3	Nominal overall length of side (mm)

Table 5 — Identification of a sunglass frame item within an electronic frame catalogue

Name	O/M	Format	Length	Description
Gtin14	M	TEXT	14	GTIN
Mancode	M	TEXT	max. 40	Legal manufacturer
Downer	O	TEXT	max. 40	Data owner
Pclass	M	TEXT	max. 255	Code of the product class to which the frame item belongs within the frame classification
Mcode	M	TEXT	max. 25	Model code
Mdesc	O	TEXT	max. 25	Frame item marking
Snmb	O	BOOLEAN	1	Serial number
Datastatus	M	TEXT	1	Frame item data status
Dataupdatedate	O	DATETIME	25	Frame item update date
Bndcod	O	TEXT	max. 3	Brand code
Bnddes	O	TEXT	max. 25	Brand description
Collcod	O	TEXT	max. 3	Collection code
Colldes	O	TEXT	max. 25	Collection description
Ccode	O	TEXT	max. 10	Harmonized code system
Mcolc	M	TEXT	max. 6	Colour code
asize	O	INTEGER	max. 3	Nominal horizontal lens size (mm)
dsize	O	INTEGER	max. 2	Nominal distance between lenses (mm)
lsize	O	INTEGER	max. 3	Nominal overall length of side (mm)
Lens	M	TEXT	max. 25	Identifier of lens

For a sample XML file, see Annex C.

7   Marking — Barcode

Although product marking is not formally within the scope of this part of ISO 10685, items intended for scanning should be marked with a bar code symbol such as GTIN-12s or GTIN-13s belonging to the EAN/UPC symbology family.

Annex A
(normative)

Field descriptions

Table A.1 contains detailed field descriptions and examples for the electronic frame catalogue.

Table A.1 — Field of descriptions and examples for the electronic frame catalogue

Name	Example	Comments/Codification	Additional comments	ebXML Mapping
Test	0		Boolean that indicates if the catalogue is a test file.	CatalogueManifestDocument → TestIndicator
Cdate	1997-07-16T19:20:30+01:00	YYYY-MM-DDThh:mm:ss±hh:mm	Date and time of the catalogue generation/distribution.	OpticCatalogue → DeliveryDelimitedPeriod
Cvers	000011	Version of the catalogue	Given the detail of the date and time field, it is open to be used by the sender to specify further version detail (e.g. Language).	CatalogueManifestDocument → VersionID
Sendcode	ACME	The catalogue provider can be different from the manufacturer		CatalogueManifestDocument → ProviderOpticParty → ID
Sendname	John Smith	Catalogue provider's contact name		CatalogueManifestDocument → ProviderOpticParty → SpecifiedOpticTradeContact→ PersonName
Senddetails	512-999-9999	May be a phone number or an address of the catalogue provider		CatalogueManifestDocument → ProviderOpticParty → specifiedOpticTradeContact→ URICIUniversalCommunication → CompletNumber
Cname	FRAMES SPRING 2009	Name of the catalogue		CatalogueManifestDocument → Description OpticCatalogue → Description
Crev	0	The revision of the catalogue if updates have been made		CatalogueManifestDocument → ReleaseID
Cid	1	Catalogue identifier		OpticCatalogue → ID
Cstartdate	2009-04-15	YYYY-MM-DD		OpticCatalogue → ValidityDelimitedPeriod → StartDateTime
Cenddate	2009-12-15	YYYY-MM-DD		OpticCatalogue → ValidityDelimitedPeriod → EndDateTime
Supcode	13424SUP		If a supplier needs to be specified.	OpticCatalogue → SupplierOpticParty → ID
Supcodequalifier	13S		Source of the given supplier code.	OpticCatalogue → SupplierOpticParty → ID (SchemeID)
Supname	Supplier 123424			OpticCatalogue → SupplierOpticParty → Name
Reccode	A873		If a recipient needs to be specified.	CatalogueManifestDocument → ReceiverOpticParty → ID
Reccodequalifier	IRS		Source of the given recipient code.	CatalogueManifestDocument → ReceiverOpticParty → ID (SchemeID)

Table A.1 (*continued*)

Name	Example	Comments/Codification	Additional comments	ebXML Mapping
Recname	Customer 873			CatalogueManifestDocument → ReceiverOpticParty → Name
Currcode	EUR	As described by ISO 4217		CatalogueManifestDocument → PrimaryCode (and all CatalogueManifestDocument → SecondaryOpticCurrency Exchange → SourceCode)
Gtin14	12345678901234	GTIN-14 specification from GS1 According to ISO 10685-1, 5.1, which defines the use of GTIN-14 in the scope of this file	The field contains either a valid UPC, EAN/13, JAN, or a GTIN-14 number. A GTIN-14 format from an UPC/12 is obtained by left filling using two leading zeroes. A GTIN-14 format from an EAN/13 or JAN/13 is obtained by left filling using one leading zero. GTIN-14 means GLOBAL TRADE ITEM NUMBER UPC means UNIVERSAL PRODUCT CODE EAN means EUROPEAN ARTICLE NUMBER JAN means JAPANEESE ARTICLE NUMBER	ReferencedOpticProduct → SpecifiedOpticProduct Identification → ID
Mancode	ACME INC	Identifies the manufacturer, or the distributor when it applies		OpticCatalogue → ManufacturerOpticParty → ID
Downer	ACME INC	Identifies the data owner	In absence of the data owner, it is considered that the data owner is the provider of the catalogue.	
Pclass	RimMountSunglass Class			ReferencedOpticProduct → DesignatedOpticProduct Classification → SubClassCode (with ClassCode=FrameClass)
Mcode	ABCD1		Identification of a family of products defined by the manufacturer. Also referred to as the style code.	ReferencedOpticProduct → ModelName
Mdesc	UNK ABCD1 54-18-135 BROWN	Given in ISO 12870:—, Clause 9	Marking of model, size and colour from the manufacturer (usually on the temple).	ReferencedOpticProduct → Name
Snmb	N	Boolean indicating if an individual item is identified by a serial number	It is an indication that the frame has a serial number which is a unique number assigned to the specific piece.	ReferencedOpticProduct → SerialNumberIndicator
Datastatus	C	C or M	Indicates whether the frame is being created or modified.	ApplicableOpticTradeAgreement → ActionCode
Dataupdate date	1997-07-16T19:20:30+01:00	YYYY-MM-DDThh:mm:ss±hh:mm	Date and time the frame item was last updated. In case the information is missing in the entire catalogue, it is up to the catalogue receiver to determine which items have been updated.	ContainedOpticCatalogueItem → ApplicableOpticTradeAgreement → LastChangedDateTime
Bndcod	UNK	Brand identification is strongly recommended, even if not enforced. The Brand code should be the one used by the manufacturer	The manufacturer shall use this to identify a brand.	ReferencedOpticProduct → BrandID

Table A.1 (*continued*)

Name	Example	Comments/Codification	Additional comments	ebXML Mapping
Bnddes	UNK BRAND	It is the description of BRAND CODE	Manufacturer describing the brand of the frame.	RefencedOpticProduct → BrandName
Collcod	1	There can be one or several collections per brand. It is a further classification of the frame based on an optional field.	Manufacturer code to define subset of brands.	RefencedOpticProduct → SubBrandID
Colldes	OPTICAL	It is the description of COLLECTION CODE	Describes the sub-set brand in text or numeric format.	RefencedOpticProduct → SubBrandName
Ccode	900311	Harmonized System Code	Given the Harmonized Commodity Description and Coding System (HS), this is the appropriate code for the frame.	RefencedOpticProduct → DesignatedOpticProduct Classification → ApplicableOpticProduct Characteristic
Mcolc	2259	It identifies the colour for the given model/style		RefencedOpticProduct → ColorCode
asize	50	As described by ISO 8624	Distance between the vertical sides of the rectangular box which circumscribes the lens shape.	RefencedOpticProduct → DesignatedOpticProduct Classification → ApplicableOpticProduct Characteristic
dsize	16	As described by ISO 8624	Horizontal distance between the nasal vertical sides of the rectangular boxes which circumscribe the right and left lens shapes.	RefencedOpticProduct → DesignatedOpticProduct Classification → ApplicableOpticProduct Characteristic
lsize	135	As described by ISO 8624	Length from the intersection of the dowel screw's axis with the median plane of the joint to the end of the side and parallel to the centreline of it, the drop having been straightened.	RefencedOpticProduct → DesignatedOpticProduct Classification → ApplicableOpticProduct Characteristic
Lens	POLARGREY	Some lens code or id to describe the lens provided with plano sunglasses		RefencedOpticProduct → DesignatedOpticProduct Classification → ApplicableOpticProduct Characteristic

Annex B
(normative)

Electronic frame catalogue schema, reference and classification — Identification section

The schema supporting the catalogue can be found on the following websites:

http://www.edi-optique.org/standard/

http://www.thevisioncouncil.org/members/content_255.cfm?navID=457

http://www.anfao.it/

Annex C
(informative)

Electronic frame catalogue XML sample — Identification section

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!--Sample XML file for ISO 10685 -->
<ocm:CatalogueManifest xsi:schemaLocation="urn:edi:optique:data:draft:CatalogueManifest:0
CatalogueManifest_0p1p0.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:ocm="urn:edi:optique:data:draftstandard:CatalogueManifest:01"
xmlns:oram="urn:edi:optique:data:draftstandard:OpticReusableAggregateBusinessInformationEntity:01"
xsi:schemaLocation="urn:edi:optique:data:standard:CatalogueManifest:1 http://www.edi-
optique.org/standard/edioptic/data/standard/CatalogueManifest_1p1p0.xsd">
    <ocm:CatalogueManifestDocument>
        <oram:TestIndicator>truefalse</oram:TestIndicator>
        <oram:Description languageID="en-us">FRAMES SPRING 20092011</oram:Description>
        <oram:VersionID>000011</oram:VersionID>
        <oram:ReleaseID>0</oram:ReleaseID>
        <oram:RequestReferenceID/>
        <oram:ProviderOpticParty>
            <oram:ID schemeID="ZZY" schemeDataURI="http://www.edi-
optique.org/standards_opto/edioptic/codelist/standard/OpticPartyIdentificationCode-
1.01.gc">ACME</oram:ID>
            <oram:Name>ACME INC</oram:Name>
            <oram:SpecifiedOpticTradeContact>
            <oram:DefinedOpticTradeContact>
                <oram:PersonName languageID="en-us">John Smith</oram:PersonName>
                <oram:TelephoneCIUniversalCommunication>
                    <oram:CompleteNumber>512-999-9999</oram:CompleteNumber>
                </oram:TelephoneCIUniversalCommunication>
            </oram:SpecifiedOpticTradeContact>
            </oram:DefinedOpticTradeContact>
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        <oram:ReceiverOpticParty>
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            <oram:Name>Customer 873</oram:Name>
        </oram:ReceiverOpticParty>
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listAgencyID="5">EUR</oram:PrimaryCode>
    </ocm:CatalogueManifestDocument>
    <ocm:OpticCatalogue>
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        <oram:Description languageID="en-us">FRAMES">FRAME SPRING 2009</oram:Description>
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        </oram:SupplierOpticParty>
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        </oram:DeliveryDelimitedPeriod>
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```

```
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optique.org/standards_opto/edioptic/codelist/standard/OpticPartyIdentificationCode-
1.01.gc">ACME</oram:ID>
        <oram:Name>ACME INC</oram:Name>
    </oram:ManufacturerOpticParty>
    <oram:ContainedOpticCatalogueItem>
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        <oram:ActionCode>1</oram:ActionCode>
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            </oram:SpecifiedOpticProductIdentification>
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                <oram:CategoryID>2</oram:CategoryID>
            </oram:ApplicableOpticCENRestriction>
            <oram:DesignatedOpticProductClassification>
                <oram:ClassCode listID="OpticClasseslistURI="http://www.edi-
optique.org/standard/edioptic/codelist/standard/OpticClassifications_v1.0r09.xml"
listAgencyName="Association EDI Optique" listName="OpticClassifications" listVersionID="1.0r09"
listSchemeURI="http://www.edi-
optique.org/standards/OpticClasses_v1.0r00/edioptic/data/standard/OpticClassifications_v1.0r06.xsd"
listVersionID="1.0r00">RimMountSpectacleFrameProductClass">FrameClass</oram:ClassCode>
                <oram:SubClassCode>RimMountSunglassClass</oram:SubClassCode>

                <!--===== Identification section  =====-->
                <oram:ApplicableOpticProductCharacteristic>
```

```
                    <oram:ID schemeID="OpticClasses" schemeAgencyName="String"
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optique.org/standards/OpticClasses_v1.0r02.xml">977</oram:ID>

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