# Circular Economy Ontology Network (CEON) - Textile Module

#### Metadata

IRI

http://w3id.org/CEON/demo/textile/

Title

Circular Economy Ontology Network (CEON) - Textile Module

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**Version Iri** 

http://w3id.org/CEON/demo/textile/0.1/

**Version Info** 

0.1

**Preferred Namespace Uri** 

http://w3id.org/CEON/demo/textile/

**Description** 

The Textile module of CEON (Circular Economy Ontology Network).

#### Classes

### Amount Interval Value<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/AmountIntervalValue

**Super Class Of** 

<u>LeakageAmountInterval<sup>c</sup></u>

PostConsumerRecycledContentInterval<sup>C</sup>
PreConsumerRecycledContentInterval<sup>C</sup>
RecyclingAtSameLevelAmountInterval<sup>C</sup>

## Amount Threshold<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/AmountThreshold

In Range Of <u>disclosureValue</u>op

**Named Individuals** 

0.01%<sup>ni</sup> <u>0.1%</u><sup>ni</sup> 1%<sup>ni</sup>

## Availability <sup>c</sup>

http://w3id.org/CEON/ontology/textile/Availability IRI

**Named Individuals** <u>public</u><sup>ni</sup>

<u>secrecyAgreement<sup>ni</sup></u>

## Batch Of Textile Objects <sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/BatchOfTextileObjects

http://w3id.org/CEON/ontology/resourceODP/BatchOfObjects **Sub Class Of** 

Restriction hasColor<sup>op</sup> some BatchOfTextileObjects<sup>c</sup>

## Chemical Finishing <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/ChemicalFinishing

Sub Class Of TextileFinishing<sup>c</sup>

**Named Individuals** 

anti-pilling<sup>ni</sup>

antiStaticFinishing<sup>ni</sup> antibacterialFinishing<sup>ni</sup>

<u>coating</u><sup>ni</sup>

coatingPUni coatingPVCni

coatingPVC<sup>ni</sup>
creaseResistance<sup>ni</sup>
enzymeFinishing<sup>ni</sup>
flameRetardant<sup>ni</sup>
mattingAgent<sup>ni</sup>
millWashing<sup>ni</sup>
millingAgent<sup>ni</sup>
naturalOiling<sup>ni</sup>
opticalBrighteners<sup>ni</sup>
permanentPress<sup>ni</sup>

resins<sup>ni</sup>
silicones<sup>ni</sup>
soilRelease<sup>ni</sup>
stainResistance<sup>ni</sup>

<u>prepareForDyeing</u><sup>ni</sup>

### Color <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/Color

In Range Of hasColor<sup>op</sup>

Dye<sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/Dye

Sub Class Of TextileProperty<sup>C</sup>

**Named Individuals** 

acidDye<sup>ni</sup>
analineDye<sup>ni</sup>
azoDye<sup>ni</sup>
basicDye<sup>ni</sup>
chromeDye<sup>ni</sup>
directDye<sup>ni</sup>
disperseDye<sup>ni</sup>
mordantDye<sup>ni</sup>
narturalDye<sup>ni</sup>

pigmentBiosynthetic<sup>ni</sup> pigmentNatural<sup>ni</sup> pigmentSynthetic<sup>ni</sup> reactiveDye<sup>ni</sup> vatDye<sup>ni</sup>

### dyeing process <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/DyeingProcess

Sub Class Of TextileManufacturingProcess<sup>C</sup>

In Range Of Dye Method op

### Leakage Amount Interval<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/LeakageAmountInterval

Sub Class Of <u>AmountIntervalValue</u><sup>C</sup>

**Named Individuals** 

1-10%<sup>ni</sup> 25-50%<sup>ni</sup> 50-75%<sup>ni</sup> 75-95%<sup>ni</sup> >95%<sup>ni</sup>

10-25% ni

<u>lessThan1Perc</u><sup>ni</sup>

#### Mechanical Finishing <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/MechanicalFinishing

Sub Class Of TextileFinishing<sup>C</sup>

**Named Individuals** 

<u>calendering</u><sup>ni</sup> <u>embossing</u><sup>ni</sup>

permanentCreasing<sup>ni</sup>
pre-shrinking<sup>ni</sup>
steaming<sup>ni</sup>
sueding<sup>ni</sup>

### Post Consumer Recycled Content Interval<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/PostConsumerRecycledContentInterval

Sub Class Of AmountIntervalValue<sup>C</sup>

**Named Individuals** 

0%<sup>ni</sup> 0-10%<sup>ni</sup> 10-25%<sup>ni</sup> 25-50%<sup>ni</sup> 50-75%<sup>ni</sup> 75-95%<sup>ni</sup> >95%<sup>ni</sup>

### Pre Consumer Recycled Content Interval<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/PreConsumerRecycledContentInterval

Sub Class Of AmountIntervalValue<sup>C</sup>

**Named Individuals** 

0%<sup>ni</sup> 0-10%<sup>ni</sup> 10-25%<sup>ni</sup> 25-50%<sup>ni</sup> 50-75%<sup>ni</sup> 75-95%<sup>ni</sup> >95%<sup>ni</sup>

#### Print<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/Print

Sub Class Of <a href="http://w3id.org/CEON/ontology/resourceODP/Constituent">http://w3id.org/CEON/ontology/resourceODP/Constituent</a>

#### Print Stuff C

IRI http://w3id.org/CEON/ontology/textile/PrintStuff

Sub Class Of <a href="http://w3id.org/CEON/ontology/resourceODP/Matter">http://w3id.org/CEON/ontology/resourceODP/Matter</a>

**Named Individuals** 

acidDye<sup>ni</sup>
analineDye<sup>ni</sup>
azoDye<sup>ni</sup>
basicDye<sup>ni</sup>
chromeDye<sup>ni</sup>
directDye<sup>ni</sup>
disperseDye<sup>ni</sup>
mordantDye<sup>ni</sup>
narturalDye<sup>ni</sup>

pigmentBiosynthetic<sup>ni</sup> pigmentNatural<sup>ni</sup> pigmentSynthetic<sup>ni</sup> reactiveDye<sup>ni</sup> sulfurDye<sup>ni</sup> vatDye<sup>ni</sup>

### Printing Process <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/PrintingProcess

Sub Class Of TextileManufacturingProcess<sup>C</sup>

In Range Of Print Method op

**Named Individuals** 

batikPrinted<sup>ni</sup>
digitalPrinted<sup>ni</sup>
handPainted<sup>ni</sup>
inkjetPrinted<sup>ni</sup>
rollerPrinted<sup>ni</sup>
screenPrinted<sup>ni</sup>
transferPrinted<sup>ni</sup>

### Recycling At Same Level Amount Interval<sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/RecyclingAtSameLevelAmountInterval

Sub Class Of AmountIntervalValue<sup>C</sup>

**Named Individuals** 

0% ni 0-10% ni 10-25% ni 25-50% ni 50-75% ni 75-95% ni 95-99% ni

### Textile Chemical Substance Threshold Statement<sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileChemicalSubstanceThresholdStateme

nt

Sub Class Of TextileDataSheetStatement<sup>C</sup>

In Domain Of <u>disclosureValue op</u>

#### Textile Data Sheet<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileDataSheet

Sub Class Of <a href="http://w3id.org/CEON/ontology/datasheet/DataSheet">http://w3id.org/CEON/ontology/datasheet/DataSheet</a>

Restriction

<u>hasProperty</u> op some <u>TextileDataSheet</u> C

http://w3id.org/CEON/ontology/resourceODP/isAbout some TextileDataSheet<sup>c</sup>

### Textile Data Sheet Issuing Statement <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileDataSheetIssuingStatement

Sub Class Of TextileDataSheetStatement<sup>C</sup>

#### Textile Data Sheet Statement<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileDataSheetStatement

Sub Class Of <a href="http://w3id.org/CEON/ontology/provenance/Statement">http://w3id.org/CEON/ontology/provenance/Statement</a>

**Super Class Of** 

<u>TextileChemicalSubstanceThresholdStatement</u><sup>c</sup>

TextileDataSheetIssuingStatement<sup>C</sup>
TextileDataSheetUpdateStatement<sup>C</sup>
TextileManufacturerStatement<sup>C</sup>
TextileManufacturingSiteStatement<sup>C</sup>

<u>TextileProductCertification</u><sup>C</sup>

<u>TextileProductComponentRelation</u><sup>c</sup>

<u>TextileProductCompositionDisclosureStatement</u><sup>C</sup>

<u>TextileProductCompositionOfConcern</u><sup>c</sup> <u>TextileProductCompositionWeightFraction</u><sup>c</sup>

<u>TextileProductDataSheet</u><sup>c</sup>

TextileProductDesignForDisassembly<sup>C</sup>
TextileProductDesignForRecycling<sup>C</sup>
TextileProductDesignForRefurbishment<sup>C</sup>
TextileProductDesignForRemanufacturing<sup>C</sup>
TextileProductDesignForReuseMethod<sup>C</sup>
TextileProductDesignedForBetterUse<sup>C</sup>
TextileProductManufacturingMethod<sup>C</sup>
TextileProductMatterCompositionRelation<sup>C</sup>

<u>TextileProductRecycledContent</u><sup>c</sup> <u>TextileProductRenewableContet</u><sup>c</sup>

#### Textile Data Sheet Update Statement <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileDataSheetUpdateStatement

Sub Class Of TextileDataSheetStatement<sup>C</sup>

#### Textile Finishing<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileFinishing

Sub Class Of TextileProperty<sup>C</sup>

In Range Of hasFinishing op

**Super Class Of** 

<u>ChemicalFinishing</u><sup>C</sup> <u>MechanicalFinishing</u><sup>C</sup> Textile Manufacturer Statement<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileManufacturerStatement

Sub Class Of TextileDataSheetStatement<sup>C</sup>

Textile Manufacturing Process <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileManufacturingProcess

In Range Of <a href="hasTextileManufacturingProcess">hasTextileManufacturingProcess</a> op

Super Class Of

dyeing process<sup>C</sup>
PrintingProcess<sup>C</sup>

**Named Individuals** 

directDyed<sup>ni</sup>
dopeDyed<sup>ni</sup>
pieceDyed<sup>ni</sup>
topDyed<sup>ni</sup>
undyed<sup>ni</sup>
yarnDyed<sup>ni</sup>

Textile Manufacturing Site Statement <sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileManufacturingSiteStatement

Sub Class Of TextileDataSheetStatement<sup>C</sup>

Textile Product<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProduct

Sub Class Of <a href="http://w3id.org/CEON/ontology/product/Product">http://w3id.org/CEON/ontology/product/Product</a>

In Domain Of hasTextileProductType<sup>op</sup>

Restriction hasColor<sup>op</sup> some TextileProduct<sup>C</sup>

hasTextileProductType<sup>op</sup> some TextileProduct<sup>c</sup>

Textile Product Certification<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductCertification

Sub Class Of TextileDataSheetStatement<sup>C</sup>

#### Textile Product Component Relation<sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductComponentRelation

Sub Class Of

http://qudt.org/schema/qudt/Quantity

TextileDataSheetStatement<sup>c</sup>

http://w3id.org/CEON/ontology/actorODP/ResourceParticipation

http://w3id.org/CEON/ontology/actorODP/participatingSubject some TextileProduct and http://gudt.org/schema/gudt/hasUnit some http://gudt.org/schema/gudt/Unit

and http://w3id.org/CEON/ontology/actorODP/participatingObject some

http://w3id.org/CEON/ontology/resourceODP/Constituent<sup>c</sup> and

http://qudt.org/schema/qudt/numericalValue\_some nfee72dd7d0bf4848a815766c4cd0d0a8b15<sup>c</sup>

### Textile Product Composition Disclosure Statement<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductCompositionDisclosureStatem

ent

Sub Class Of TextileDataSheetStatement<sup>C</sup>

In Range Of chemicalSubstanceDisclosureThreshold op

#### Textile Product Composition Of Concern<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductCompositionOfConcern

Sub Class Of TextileDataSheetStatement<sup>C</sup>

#### Textile Product Composition Weight Fraction <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductCompositionWeightFraction

Sub Class Of TextileDataSheetStatement<sup>C</sup>

#### Textile Product Data Sheet<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductDataSheet

Sub Class Of TextileDataSheetStatement<sup>C</sup>

### Textile Product Design For Disassembly<sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductDesignForDisassembly

Sub Class Of TextileDataSheetStatement<sup>C</sup>

**Super Class Of** 

<u>TextileProductDesignToBeCleanlyRemoved<sup>c</sup></u> <u>TextileProductDesignToBeDismantled<sup>c</sup></u>

### Textile Product Design For Recycling <sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductDesignForRecycling

Sub Class Of TextileDataSheetStatement<sup>C</sup>

In Range Of desinged for recycling at the same level of quality op

**Restriction** recyclingAtSameQualityRange<sup>op</sup> some TextileProductDesignForRecycling<sup>c</sup>

## Textile Product Design For Refurbishment<sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductDesignForRefurbishment

Sub Class Of TextileDataSheetStatement<sup>C</sup>

#### Textile Product Design For Remanufacturing <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductDesignForRemanufacturing

Sub Class Of TextileDataSheetStatement<sup>C</sup>

#### Textile Product Design For Reuse Method <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductDesignForReuseMethod

Sub Class Of TextileDataSheetStatement<sup>C</sup>

### Textile Product Design To Be Cleanly Removed<sup>c</sup>

 $\textbf{IRI} \hspace{1cm} \text{http://w3id.org/CEON/ontology/textile/TextileProductDesignToBeCleanlyRemoved} \\$ 

Sub Class Of TextileProductDesignForDisassembly<sup>c</sup>

#### Textile Product Design To Be Dismantled<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductDesignToBeDismantled

Sub Class Of TextileProductDesignForDisassembly<sup>c</sup>

#### Textile Product Designed For Better Use<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductDesignedForBetterUse

Sub Class Of TextileDataSheetStatement<sup>C</sup>

### Textile Product Manufacturing Method<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductManufacturingMethod

Sub Class Of TextileDataSheetStatement<sup>C</sup>

#### Textile Product Matter Composition Relation <sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductMatterCompositionRelation

Sub Class Of

http://qudt.org/schema/qudt/Quantity

TextileDataSheetStatement<sup>c</sup>

 $\frac{http://w3id.org/CEON/ontology/actorODP/ResourceParticipation}{http://w3id.org/CEON/ontology/actorODP/participatingObject\_some}$ 

http://w3id.org/CEON/ontology/resourceODP/Matter<sup>c</sup> and

http://w3id.org/CEON/ontology/actorODP/participatingSubject\_some

nfee72dd7d0bf4848a815766c4cd0d0a8b26<sup>c</sup>

### Textile Product Object<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductObject

Sub Class Of <a href="http://w3id.org/CEON/ontology/product/ProductObject">http://w3id.org/CEON/ontology/product/ProductObject</a>

Restriction <u>hasColor<sup>op</sup></u> some <u>TextileProductObject<sup>c</sup></u>

### Textile Product Recycled Content<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductRecycledContent

**Sub Class Of** 

http://qudt.org/schema/qudt/Quantity

TextileDataSheetStatement<sup>c</sup>

http://w3id.org/CEON/ontology/actorODP/ResourceParticipation http://w3id.org/CEON/ontology/provenance/statementAbout\_some

nfee72dd7d0bf4848a815766c4cd0d0a8b35<sup>c</sup> and

http://qudt.org/schema/qudt/hasUnit\_some http://qudt.org/schema/qudt/Unit\_and

http://qudt.org/schema/qudt/numericalValue\_some nfee72dd7d0bf4848a815766c4cd0d0a8b39<sup>c</sup>

#### Textile Product Renewable Contet<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductRenewableContet

Sub Class Of TextileDataSheetStatement<sup>C</sup>

### Textile Product Type<sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProductType

In Range Of hasTextileProductType<sup>op</sup>

#### Textile Property <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileProperty

**Super Class Of** 

<u>Dye</u><sup>c</sup>

TextileFinishing<sup>C</sup>
WaterProperty<sup>C</sup>

## Textile Recycling Process <sup>c</sup>

IRI http://w3id.org/CEON/ontology/textile/TextileRecyclingProcess

In Range Of textileProductDesignForRecycling<sup>op</sup>

**Named Individuals** 

biodigestion<sup>ni</sup>

biosphereCascading<sup>ni</sup> homeComposting<sup>ni</sup> incineration<sup>ni</sup>

industrialComposting ni

Validation <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/Validation

Named Individuals

certified<sup>ni</sup>

validatedByThirdParty<sup>ni</sup>

Water Property <sup>C</sup>

IRI http://w3id.org/CEON/ontology/textile/WaterProperty

Sub Class Of TextileProperty<sup>c</sup>

In Range Of Water Property op

**Named Individuals** 

Water repellent<sup>ni</sup>
Water resistant<sup>ni</sup>
Waterproof<sup>ni</sup>

## **Object Properties**

anticipated leakage during use op

IRI http://w3id.org/CEON/ontology/textile/anticipatedLeakageDuringUse

**Description**Percentage of the product content anticipated to become leakage during the use

phase due to for example wear & tear, oxidation, erosion, etc.

Sub Property Of hasProperty op

chemical substance disclosure threshold op

IRI http://w3id.org/CEON/ontology/textile/chemicalSubstanceDisclosureThreshold

Range <u>TextileProductCompositionDisclosureStatement</u><sup>c</sup>

desinged for recycling at the same level of quality op

IRI http://w3id.org/CEON/ontology/textile/designedForRecyclingAtSameQuality

Description

Percentage of the product that is designed for recycling at the same level of

quality. The remainder of the materials is foreseen by the manufacturer to be

recycled at a lower quality than the original content.

Sub Property Of has Property op

Range <u>TextileProductDesignForRecycling</u><sup>C</sup>

disclosure value op

IRI http://w3id.org/CEON/ontology/textile/disclosureValue

Sub Property Of <a href="http://w3id.org/CEON/ontology/quantity#objectValue">http://w3id.org/CEON/ontology/quantity#objectValue</a>

Domain <u>TextileChemicalSubstanceThresholdStatement</u><sup>C</sup>

Range AmountThreshold<sup>c</sup>

has color op

IRI http://w3id.org/CEON/ontology/textile/hasColor

Domain <a href="http://w3id.org/CEON/ontology/product/Product">http://w3id.org/CEON/ontology/product/Product</a> or

http://w3id.org/CEON/ontology/resourceODP/BatchOfObjects<sup>C</sup> or

http://w3id.org/CEON/ontology/product/ProductObject<sup>C</sup>

Range Color<sup>c</sup>

Dye Method op

IRI http://w3id.org/CEON/ontology/textile/hasDyeMethod

**Sub Property Of** hasTextileManufacturingProcess<sup>op</sup>

Range <u>dyeing process</u><sup>C</sup>

Dye Stuff<sup>op</sup>

IRI http://w3id.org/CEON/ontology/textile/hasDyeStuff

Sub Property Of hasProperty op

has finishing op

IRI http://w3id.org/CEON/ontology/textile/hasFinishing

Sub Property Of hasProperty op

Range TextileFinishing<sup>c</sup>

Finishing Step op

IRI http://w3id.org/CEON/ontology/textile/hasFinishingStep

Sub Property Of hasTextileManufacturingProcess<sup>op</sup>

has post consumer recycled content amount op

IRI http://w3id.org/CEON/ontology/textile/hasPostConsumerRecycledContentAmount

Sub Property Of <a href="http://w3id.org/CEON/ontology/product/hasComposition">http://w3id.org/CEON/ontology/product/hasComposition</a>

has pre consumer recycled content amount op

IRI http://w3id.org/CEON/ontology/textile/hasPreConsumerRecycledContentAmount

Sub Property Of <a href="http://w3id.org/CEON/ontology/product/hasComposition">http://w3id.org/CEON/ontology/product/hasComposition</a>

Print Finishing op

IRI http://w3id.org/CEON/ontology/textile/hasPrintFinishing

Sub Property Of hasProperty op

Print Method op

IRI http://w3id.org/CEON/ontology/textile/hasPrintMethod

Sub Property Of hasTextileManufacturingProcess<sup>op</sup>

Range PrintingProcess<sup>C</sup>

Print Stuff op

IRI http://w3id.org/CEON/ontology/textile/hasPrintStuff

Sub Property Of hasProperty op

has property op

IRI http://w3id.org/CEON/ontology/textile/hasProperty

**Super Property Of** 

• anticipatedLeakageDuringUse<sup>op</sup>

• desinged for recycling at the same level of quality op

• Dye Stuff<sup>op</sup>

• <u>hasFinishing</u>op

• Print Finishing op

• Print Stuff<sup>op</sup>

Water Property<sup>op</sup>

Domain <a href="http://w3id.org/CEON/ontology/datasheet/DataSheet">http://w3id.org/CEON/ontology/datasheet/DataSheet</a>

Range <a href="http://w3id.org/CEON/ontology/provenance/Statement">http://w3id.org/CEON/ontology/provenance/Statement</a>

has textile manufacturing process op

IRI http://w3id.org/CEON/ontology/textile/hasTextileManufacturingProcess

**Super Property Of** 

• Dye Method op

• Finishing Step op

• Print Method<sup>op</sup>

Range TextileManufacturingProcess<sup>C</sup>

has textile product type op

IRI http://w3id.org/CEON/ontology/textile/hasTextileProductType

Domain <u>TextileProduct</u><sup>c</sup>

Range <u>TextileProductType</u><sup>c</sup>

Water Property op

IRI http://w3id.org/CEON/ontology/textile/hasWaterProperty

Sub Property Of hasProperty op

Range WaterProperty<sup>C</sup>

product composition disclosure availability op

IRI http://w3id.org/CEON/ontology/textile/productCompositionDisclosureAvailability

Description

A product composition disclosed at the defined threshold is publicly available or a product composition disclosed at the defined threshold is available to the customer

under secrecy agreement.

product composition disclosure validation op

IRI http://w3id.org/CEON/ontology/textile/productCompositionDisclosureValidation

Description

The product composition disclosed at the defined threshold has been validated by

a third party or the product has been awarded an independent certification or

standard related to its composition.

recycling at same quality range op

IRI http://w3id.org/CEON/ontology/textile/recyclingAtSameQualityRange

Sub Property Of <a href="http://w3id.org/CEON/ontology/quantity#objectValue">http://w3id.org/CEON/ontology/quantity#objectValue</a>

textile product design op

IRI http://w3id.org/CEON/ontology/textile/textileProductDesign

Super Property Of textileProductDesignForRecycling op

textile product design for recycling op

IRI http://w3id.org/CEON/ontology/textile/textileProductDesignForRecycling

**Description**Product designed for a certain recycling method.

Sub Property Of textileProductDesign op

Range <u>TextileRecyclingProcess</u><sup>C</sup>

weight fraction of disclosed substances op

IRI http://w3id.org/CEON/ontology/textile/weightFractionOfDisclosedSubstances

**Description**The weight fraction of all disclosed chemical substances is 0%, 0-10%, 10-25%,

25-50%, 50-75%, 75-95%, 95-99%, over 99%.

### **Datatype Properties**

C Emark<sup>dp</sup>

IRI http://w3id.org/CEON/ontology/textile/CEmark

**Description**The product has theCE mark.

Sub Property Of certification dp

Range <u>xsd:boolean</u>

### available information dp

IRI http://w3id.org/CEON/ontology/textile/availableInformation

**Super Property Of** 

- biodegradabilityTestAvailable<sup>dp</sup>
- materialSafetyDataSheetAvailable<sup>dp</sup>
- materialSafetyDataSheetForDyeingAvailable dp
- materialSafetyDataSheetForFinishingAvailable<sup>dp</sup>
- technicalDataSheetAvailable<sup>dp</sup>

biodegradability test available dp

IRI http://w3id.org/CEON/ontology/textile/biodegradabilityTestAvailable

**Description**Biodegradability test is available.

Sub Property Of availableInformation dp

Range xsd:boolean

 $certification \\ ^{dp}$ 

IRI http://w3id.org/CEON/ontology/textile/certification

Super Property Of CEmark dp

chemical compliance dp

IRI http://w3id.org/CEON/ontology/textile/chemicalCompliance

collection parameter dp

IRI http://w3id.org/CEON/ontology/textile/collectionParameter

Super Property Of collectionSystem<sup>dp</sup>

collection system dp

IRI http://w3id.org/CEON/ontology/textile/collectionSystem

Description

The manufacturer/ industry association has a dedicated collection system in place

to gather and deliver products for recycling.

Sub Property Of collectionParameter dp

Range xsd:boolean

### design for properties dp

IRI http://w3id.org/CEON/ontology/textile/designForProperties

**Super Property Of** 

- <u>designedForRecycling</u><sup>dp</sup>
- designedForRefurbishment<sup>dp</sup>
- designedForRemanufacturing<sup>dp</sup>
- designedForReuse dp

## design for recycling amounts dp

IRI http://w3id.org/CEON/ontology/textile/designForRecyclingAmounts

Super Property Of emissionByDesign<sup>dp</sup>

## designed for recycling dp

IRI http://w3id.org/CEON/ontology/textile/designedForRecycling

**Description**The product is designed for recycling?e

Sub Property Of designForProperties<sup>dp</sup>

## designed for refurbishment dp

IRI http://w3id.org/CEON/ontology/textile/designedForRefurbishment

**Description**The product is desinged for refurbishment?

Sub Property Of designForProperties<sup>dp</sup>

## designed for remanufacturing dp

IRI http://w3id.org/CEON/ontology/textile/designedForRemanufacturing

**Description**The product is designed for remanufacturing?

Sub Property Of designForProperties<sup>dp</sup>

designed for reuse dp

IRI http://w3id.org/CEON/ontology/textile/designedForReuse

**Description**The product is designed for reused?

Sub Property Of designForProperties<sup>dp</sup>

Super Property Of designedForReuseWMinimalMod dp

designed for reuse w minimal mod dp

IRI http://w3id.org/CEON/ontology/textile/designedForReuseWMinimalMod

**Description**The product is designed for re-use as-is or with minimal modification.

Sub Property Of <u>designedForReuse dp</u>

emission by design dp

IRI http://w3id.org/CEON/ontology/textile/emissionByDesign

**Description**The portion of the product known to be emitted into the environment during use is

designed for that purpose.

Sub Property Of designForRecyclingAmounts dp

finishing steps dp

IRI http://w3id.org/CEON/ontology/textile/finishingSteps

material safety data sheet available dp

IRI http://w3id.org/CEON/ontology/textile/materialSafetyDataSheetAvailable

Description

Material Safety Data Sheet for the product is available.

Sub Property Of availableInformation dp

Range <u>xsd:boolean</u>

material safety data sheet for dyeing available dp

IRI http://w3id.org/CEON/ontology/textile/materialSafetyDataSheetForDyeingAvailable

Description

Material Safety Data Sheets for Dyeing are available.

Sub Property Of available Information dp

Range <u>xsd:boolean</u>

material safety data sheet for finishing available dp

IRI http://w3id.org/CEON/ontology/textile/materialSafetyDataSheetForFinishingAvailab

le

Description

Material Safety Data Sheets for Finishing are available.

Sub Property Of available Information dp

Range <u>xsd:boolean</u>

technical data sheet available dp

IRI http://w3id.org/CEON/ontology/textile/technicalDataSheetAvailable

**Description**The Technical Data Sheet is available.

Sub Property Of available Information dp

Range xsd:boolean

## **Annotation Properties**

C Fmapping ap

IRI http://w3id.org/CEON/ontology/textile/CFmapping

Pcd Smapping ap

IRI http://w3id.org/CEON/ontology/textile/PCDSmapping

```
http://w3id.org/CEON/ontology/textile/

dcterms
http://purl.org/dc/terms/

owl
http://www.w3.org/2002/07/owl#

prov
http://www.w3.org/ns/prov#

rdf
http://www.w3.org/1999/02/22-rdf-syntax-ns#

rdfs
http://www.w3.org/2000/01/rdf-schema#

vann
http://purl.org/vocab/vann/

xsd
http://www.w3.org/2001/XMLSchema#
```

## Legend

c Classes
op Object Properties
dp Datatype Properties
ap Annotation Properties