

# Circular Economy Ontology Network (CEON) - Textile Module

## Metadata

### IRI

<http://w3id.org/CEON/ontology/textile/>

### Title

Circular Economy Ontology Network (CEON) - Textile Module

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### Version Iri

<http://w3id.org/CEON/ontology/textile/0.1/>

### Version Info

0.1

### Preferred Namespace Uri

<http://w3id.org/CEON/ontology/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

[LeakageAmountInterval<sup>C</sup>](#)

[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** [disclosureValue<sup>op</sup>](#)

**Named Individuals** [0.01%<sup>ni</sup>](#)  
[0.1%<sup>ni</sup>](#)  
[1%<sup>ni</sup>](#)

## Availability<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/Availability>

**Named Individuals** [public<sup>ni</sup>](#)  
[secrecyAgreement<sup>ni</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/textile/BatchOfTextileObjects>

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

**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>](#)
- [coating<sup>ni</sup>](#)
- [coatingAcrylic<sup>ni</sup>](#)
- [coatingPU<sup>ni</sup>](#)
- [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>](#)
- [prepareForDyeing<sup>ni</sup>](#)
- [resins<sup>ni</sup>](#)
- [silicones<sup>ni</sup>](#)
- [soilRelease<sup>ni</sup>](#)
- [stainResistance<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<sup>op</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/textile/LeakageAmountInterval>

**Sub Class Of** [AmountIntervalValue<sup>C</sup>](#)

**Named Individuals**

- [10-25%<sup>ni</sup>](#)
- [1-10%<sup>ni</sup>](#)
- [25-50%<sup>ni</sup>](#)
- [50-75%<sup>ni</sup>](#)
- [75-95%<sup>ni</sup>](#)
- [>95%<sup>ni</sup>](#)
- [lessThan1Perc<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**

- [calendering<sup>ni</sup>](#)
- [embossing<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** <http://w3id.org/CEON/ontology/resourceODP/Constituent>

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

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**IRI** <http://w3id.org/CEON/ontology/textile/PrintStuff>

**Sub Class Of** <http://w3id.org/CEON/ontology/resourceODP/Matter>

**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>

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**IRI** <http://w3id.org/CEON/ontology/textile/PrintingProcess>

**Sub Class Of** [TextileManufacturingProcess](#)<sup>C</sup>

**In Range Of** [Print Method](#)<sup>op</sup>

**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%<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>](#)  
[95-99%<sup>ni</sup>](#)  
[>99%<sup>ni</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/textile/TextileChemicalSubstanceThresholdStatement>

**Sub Class Of** [TextileDataSheetStatement<sup>C</sup>](#)

**In Domain Of** [disclosureValue<sup>op</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/textile/TextileDataSheet>

**Sub Class Of** <http://w3id.org/CEON/ontology/datasheet/DataSheet>

**Restriction** <http://w3id.org/CEON/ontology/resourceODP/isAbout> some [TextileDataSheet<sup>C</sup>](#)  
[hasProperty<sup>op</sup>](#) 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** <http://w3id.org/CEON/ontology/provenance/Statement>

**Super Class Of**

- [TextileChemicalSubstanceThresholdStatement<sup>C</sup>](#)
- [TextileDataSheetIssuingStatement<sup>C</sup>](#)
- [TextileDataSheetUpdateStatement<sup>C</sup>](#)
- [TextileManufacturerStatement<sup>C</sup>](#)
- [TextileManufacturingSiteStatement<sup>C</sup>](#)
- [TextileProductCertification<sup>C</sup>](#)
- [TextileProductComponentRelation<sup>C</sup>](#)
- [TextileProductCompositionDisclosureStatement<sup>C</sup>](#)
- [TextileProductCompositionOfConcern<sup>C</sup>](#)
- [TextileProductCompositionWeightFraction<sup>C</sup>](#)
- [TextileProductDataSheet<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>](#)
- [TextileProductRecycledContent<sup>C</sup>](#)
- [TextileProductRenewableContet<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<sup>op</sup>](#)

**Super Class Of**

- [ChemicalFinishing<sup>C</sup>](#)
- [MechanicalFinishing<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** [hasTextileManufacturingProcess<sup>op</sup>](#)

**Super Class Of**  
[DyeingProcess<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** <http://w3id.org/CEON/ontology/product/Product>

**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>

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/textile/TextileProductComponentRelation">http://w3id.org/CEON/ontology/textile/TextileProductComponentRelation</a>   |
| <b>Sub Class Of</b> | <a href="http://qudt.org/schema/qudt/Quantity">http://qudt.org/schema/qudt/Quantity</a><br><a href="http://w3id.org/CEON/ontology/actorODP/ResourceParticipation">http://w3id.org/CEON/ontology/actorODP/ResourceParticipation</a><br><a href="#">TextileDataSheetStatement<sup>c</sup></a><br><a href="http://qudt.org/schema/qudt/hasUnit">http://qudt.org/schema/qudt/hasUnit</a> some <a href="http://qudt.org/schema/qudt/Unit&lt;sup&gt;c&lt;/sup&gt;">http://qudt.org/schema/qudt/Unit<sup>c</sup></a> and<br><a href="http://qudt.org/schema/qudt/numericalValue">http://qudt.org/schema/qudt/numericalValue</a> some<br><a href="#">n448f621654d946edb3fcddddd55c4913b15<sup>c</sup></a> and<br><a href="http://w3id.org/CEON/ontology/actorODP/participatingObject">http://w3id.org/CEON/ontology/actorODP/participatingObject</a> some<br><a href="http://w3id.org/CEON/ontology/resourceODP/Constituent&lt;sup&gt;c&lt;/sup&gt;">http://w3id.org/CEON/ontology/resourceODP/Constituent<sup>c</sup></a> and<br><a href="http://w3id.org/CEON/ontology/actorODP/participatingSubject">http://w3id.org/CEON/ontology/actorODP/participatingSubject</a> some <a href="#">TextileProduct<sup>c</sup></a> |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/textile/TextileProductCompositionDisclosureStatement">http://w3id.org/CEON/ontology/textile/TextileProductCompositionDisclosureStatement</a> |
| <b>Sub Class Of</b> | <a href="#">TextileDataSheetStatement<sup>c</sup></a>   |
| <b>In Range Of</b>  | <a href="#">chemicalSubstanceDisclosureThreshold<sup>op</sup></a>   |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/textile/TextileProductCompositionOfConcern">http://w3id.org/CEON/ontology/textile/TextileProductCompositionOfConcern</a> |
| <b>Sub Class Of</b> | <a href="#">TextileDataSheetStatement<sup>c</sup></a>   |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/textile/TextileProductCompositionWeightFraction">http://w3id.org/CEON/ontology/textile/TextileProductCompositionWeightFraction</a> |
| <b>Sub Class Of</b> | <a href="#">TextileDataSheetStatement<sup>c</sup></a>   |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/textile/TextileProductDataSheet">http://w3id.org/CEON/ontology/textile/TextileProductDataSheet</a> |
| <b>Sub Class Of</b> | <a href="#">TextileDataSheetStatement<sup>c</sup></a>   |

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

|                       |   |
|-----------------------|---|
| <b>IRI</b>            | <a href="http://w3id.org/CEON/ontology/textile/TextileProductDesignForDisassembly">http://w3id.org/CEON/ontology/textile/TextileProductDesignForDisassembly</a> |
| <b>Sub Class Of</b>   | <a href="#">TextileDataSheetStatement<sup>C</sup></a>   |
| <b>Super Class Of</b> | <a href="#">TextileProductDesignToBeCleanlyRemoved<sup>C</sup></a><br><a href="#">TextileProductDesignToBeDismantled<sup>C</sup></a>                            |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/textile/TextileProductDesignForRecycling">http://w3id.org/CEON/ontology/textile/TextileProductDesignForRecycling</a> |
| <b>Sub Class Of</b> | <a href="#">TextileDataSheetStatement<sup>C</sup></a>   |
| <b>In Range Of</b>  | <a href="#">desinged for recycling at the same level of quality<sup>op</sup></a>  |
| <b>Restriction</b>  | <a href="#">recyclingAtSameQualityRange<sup>op</sup></a> some <a href="#">TextileProductDesignForRecycling<sup>C</sup></a>                                  |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/textile/TextileProductDesignForRefurbishment">http://w3id.org/CEON/ontology/textile/TextileProductDesignForRefurbishment</a> |
| <b>Sub Class Of</b> | <a href="#">TextileDataSheetStatement<sup>C</sup></a>   |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/textile/TextileProductDesignForRemanufacturing">http://w3id.org/CEON/ontology/textile/TextileProductDesignForRemanufacturing</a> |
| <b>Sub Class Of</b> | <a href="#">TextileDataSheetStatement<sup>C</sup></a>   |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/textile/TextileProductDesignForReuseMethod">http://w3id.org/CEON/ontology/textile/TextileProductDesignForReuseMethod</a> |
| <b>Sub Class Of</b> | <a href="#">TextileDataSheetStatement<sup>C</sup></a>   |

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

|                     |   |
|---------------------|---|
| <b>IRI</b>          | <a href="http://w3id.org/CEON/ontology/textile/TextileProductDesignToBeCleanlyRemoved">http://w3id.org/CEON/ontology/textile/TextileProductDesignToBeCleanlyRemoved</a> |
| <b>Sub Class Of</b> | <a href="#">TextileProductDesignForDisassembly<sup>C</sup></a>  |

## 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>  
<http://w3id.org/CEON/ontology/actorODP/ResourceParticipation>  
[TextileDataSheetStatement<sup>C</sup>](#)  
<http://w3id.org/CEON/ontology/actorODP/participatingSubject> some  
[n448f621654d946edb3fcddddd55c4913b26<sup>C</sup>](#) and  
<http://w3id.org/CEON/ontology/actorODP/participatingObject> some  
<http://w3id.org/CEON/ontology/resourceODP/Matter<sup>C</sup>>

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

**IRI** <http://w3id.org/CEON/ontology/textile/TextileProductObject>

**Sub Class Of** <http://w3id.org/CEON/ontology/product/ProductObject>

**Restriction** [hasColor<sup>op</sup>](#) some [TextileProductObject<sup>C</sup>](#)

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

**IRI** <http://w3id.org/CEON/ontology/textile/TextileProductRecycledContent>

**Sub Class Of** <http://qudt.org/schema/qudt/Quantity>  
<http://w3id.org/CEON/ontology/actorODP/ResourceParticipationTextileDataSheetStatement><sup>C</sup>  
<http://qudt.org/schema/qudt/numericalValue> some [n448f621654d946edb3fcddddd55c4913b39](http://w3id.org/CEON/ontology/actorODP/ResourceParticipationTextileDataSheetStatement)<sup>C</sup> and <http://qudt.org/schema/qudt/hasUnit> some <http://qudt.org/schema/qudt/Unit><sup>C</sup> and <http://w3id.org/CEON/ontology/provenance/statementAbout> some [n448f621654d946edb3fcddddd55c4913b35](http://w3id.org/CEON/ontology/actorODP/ResourceParticipationTextileDataSheetStatement)<sup>C</sup>

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

**IRI** <http://w3id.org/CEON/ontology/textile/TextileProductRenewableContet>

**Sub Class Of** [TextileDataSheetStatement](http://w3id.org/CEON/ontology/textile/TextileProductRenewableContet)<sup>C</sup>

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

**IRI** <http://w3id.org/CEON/ontology/textile/TextileProductType>

**In Range Of** [hasTextileProductType](http://w3id.org/CEON/ontology/textile/TextileProductType)<sup>op</sup>

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

**IRI** <http://w3id.org/CEON/ontology/textile/TextileProperty>

**Super Class Of** [Dye](http://w3id.org/CEON/ontology/textile/TextileProperty)<sup>C</sup>  
[TextileFinishing](http://w3id.org/CEON/ontology/textile/TextileProperty)<sup>C</sup>  
[WaterProperty](http://w3id.org/CEON/ontology/textile/TextileProperty)<sup>C</sup>

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

**IRI** <http://w3id.org/CEON/ontology/textile/TextileRecyclingProcess>

**In Range Of** [textileProductDesignForRecycling](http://w3id.org/CEON/ontology/textile/TextileRecyclingProcess)<sup>op</sup>

**Named Individuals** [biodigestion](http://w3id.org/CEON/ontology/textile/TextileRecyclingProcess)<sup>ni</sup>  
[biosphereCascading](http://w3id.org/CEON/ontology/textile/TextileRecyclingProcess)<sup>ni</sup>  
[homeComposting](http://w3id.org/CEON/ontology/textile/TextileRecyclingProcess)<sup>ni</sup>  
[incineration](http://w3id.org/CEON/ontology/textile/TextileRecyclingProcess)<sup>ni</sup>  
[industrialComposting](http://w3id.org/CEON/ontology/textile/TextileRecyclingProcess)<sup>ni</sup>

## 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](#)<sup>op</sup>

### Named Individuals

[Water repellent](#)<sup>ni</sup>

[Water resistant](#)<sup>ni</sup>

[Waterproof](#)<sup>ni</sup>

## Object Properties

### anticipated leakage during use<sup>op</sup>

**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](#)<sup>op</sup>

### chemical substance disclosure threshold<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/chemicalSubstanceDisclosureThreshold>

**Range** [TextileProductCompositionDisclosureStatement](#)<sup>c</sup>

## desinged for recycling at the same level of quality<sup>op</sup>

|                        |  |
|------------------------|--|
| <b>IRI</b>             | <a href="http://w3id.org/CEON/ontology/textile/designedForRecyclingAtSameQuality">http://w3id.org/CEON/ontology/textile/designedForRecyclingAtSameQuality</a>  |
| <b>Description</b>     | 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. |
| <b>Sub Property Of</b> | <a href="#">hasProperty<sup>op</sup></a>   |
| <b>Range</b>           | <a href="#">TextileProductDesignForRecycling<sup>c</sup></a>   |

## disclosure value<sup>op</sup>

|                        |   |
|------------------------|---|
| <b>IRI</b>             | <a href="http://w3id.org/CEON/ontology/textile/disclosureValue">http://w3id.org/CEON/ontology/textile/disclosureValue</a> |
| <b>Sub Property Of</b> | <a href="http://w3id.org/CEON/ontology/quantity#objectValue">http://w3id.org/CEON/ontology/quantity#objectValue</a>       |
| <b>Domain</b>          | <a href="#">TextileChemicalSubstanceThresholdStatement<sup>c</sup></a>  |
| <b>Range</b>           | <a href="#">AmountThreshold<sup>c</sup></a>   |

## has color<sup>op</sup>

|               |   |
|---------------|---|
| <b>IRI</b>    | <a href="http://w3id.org/CEON/ontology/textile/hasColor">http://w3id.org/CEON/ontology/textile/hasColor</a>   |
| <b>Domain</b> | <a href="http://w3id.org/CEON/ontology/product/Product&lt;sup&gt;c&lt;/sup&gt;">http://w3id.org/CEON/ontology/product/Product<sup>c</sup></a> or<br><a href="http://w3id.org/CEON/ontology/product/ProductObject&lt;sup&gt;c&lt;/sup&gt;">http://w3id.org/CEON/ontology/product/ProductObject<sup>c</sup></a> or<br><a href="http://w3id.org/CEON/ontology/resourceODP/BatchOfObjects&lt;sup&gt;c&lt;/sup&gt;">http://w3id.org/CEON/ontology/resourceODP/BatchOfObjects<sup>c</sup></a> |
| <b>Range</b>  | <a href="#">Color<sup>c</sup></a>   |

## Dye Method<sup>op</sup>

|                        |   |
|------------------------|---|
| <b>IRI</b>             | <a href="http://w3id.org/CEON/ontology/textile/hasDyeMethod">http://w3id.org/CEON/ontology/textile/hasDyeMethod</a> |
| <b>Sub Property Of</b> | <a href="#">hasTextileManufacturingProcess<sup>op</sup></a>   |
| <b>Range</b>           | <a href="#">DyeingProcess<sup>c</sup></a>   |

## Dye Stuff<sup>op</sup>

|                        |   |
|------------------------|---|
| <b>IRI</b>             | <a href="http://w3id.org/CEON/ontology/textile/hasDyeStuff">http://w3id.org/CEON/ontology/textile/hasDyeStuff</a> |
| <b>Sub Property Of</b> | <a href="#">hasProperty<sup>op</sup></a>  |

## has finishing<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasFinishing>

**Sub Property Of** [hasProperty<sup>op</sup>](#)

**Range** [TextileFinishing<sup>c</sup>](#)

## Finishing Step<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasFinishingStep>

**Sub Property Of** [hasTextileManufacturingProcess<sup>op</sup>](#)

## has post consumer recycled content amount<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasPostConsumerRecycledContentAmount>

**Sub Property Of** <http://w3id.org/CEON/ontology/product/hasComposition>

## has pre consumer recycled content amount<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasPreConsumerRecycledContentAmount>

**Sub Property Of** <http://w3id.org/CEON/ontology/product/hasComposition>

## Print Finishing<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasPrintFinishing>

**Sub Property Of** [hasProperty<sup>op</sup>](#)

## Print Method<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasPrintMethod>

**Sub Property Of** [hasTextileManufacturingProcess<sup>op</sup>](#)

**Range** [PrintingProcess<sup>c</sup>](#)



## Print Stuff<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasPrintStuff>

**Sub Property Of** [hasProperty<sup>op</sup>](#)

## has property<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasProperty>

**Super Property Of**

- [anticipatedLeakageDuringUse<sup>op</sup>](#)
- [desinged for recycling at the same level of quality<sup>op</sup>](#)
- [Dye Stuff<sup>op</sup>](#)
- [hasFinishing<sup>op</sup>](#)
- [Print Finishing<sup>op</sup>](#)
- [Print Stuff<sup>op</sup>](#)
- [Water Property<sup>op</sup>](#)

**Domain** <http://w3id.org/CEON/ontology/datasheet/DataSheet>

**Range** <http://w3id.org/CEON/ontology/provenance/Statement>

## has textile manufacturing process<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasTextileManufacturingProcess>

**Super Property Of**

- [Dye Method<sup>op</sup>](#)
- [Finishing Step<sup>op</sup>](#)
- [Print Method<sup>op</sup>](#)

**Range** [TextileManufacturingProcess<sup>c</sup>](#)

## has textile product type<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasTextileProductType>

**Domain** [TextileProduct<sup>c</sup>](#)

**Range** [TextileProductType<sup>c</sup>](#)

## Water Property<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/hasWaterProperty>

**Sub Property Of** [hasProperty<sup>op</sup>](#)

**Range** [WaterProperty<sup>c</sup>](#)

## product composition disclosure availability<sup>op</sup>

**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<sup>op</sup>

**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<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/recyclingAtSameQualityRange>

**Sub Property Of** <http://w3id.org/CEON/ontology/quantity#objectValue>

## textile product design<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/textileProductDesign>

**Super Property Of** [textileProductDesignForRecycling<sup>op</sup>](#)

## textile product design for recycling<sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/textileProductDesignForRecycling>

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

**Sub Property Of** [textileProductDesign<sup>op</sup>](#)

**Range** [TextileRecyclingProcess<sup>c</sup>](#)

## weight fraction of disclosed substances<sup>op</sup>

**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<sup>dp</sup>](#)

**Range** [xsd:boolean](#)

### available information<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/availableInformation>

**Super Property Of**

- [biodegradabilityTestAvailable<sup>dp</sup>](#)
- [materialSafetyDataSheetAvailable<sup>dp</sup>](#)
- [materialSafetyDataSheetForDyeingAvailable<sup>dp</sup>](#)
- [materialSafetyDataSheetForFinishingAvailable<sup>dp</sup>](#)
- [technicalDataSheetAvailable<sup>dp</sup>](#)

## biodegradability test available<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/biodegradabilityTestAvailable>

**Description** Biodegradability test is available.

**Sub Property Of** [availableInformation](#)<sup>dp</sup>

**Range** [xsd:boolean](#)

## certification<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/certification>

**Super Property Of** [CEmark](#)<sup>dp</sup>

## chemical compliance<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/chemicalCompliance>

## collection parameter<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/collectionParameter>

**Super Property Of** [collectionSystem](#)<sup>dp</sup>

## collection system<sup>dp</sup>

**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](#)<sup>dp</sup>

**Range** [xsd:boolean](#)

## design for properties<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/designForProperties>

### Super Property Of

- [designedForRecycling<sup>dp</sup>](#)
- [designedForRefurbishment<sup>dp</sup>](#)
- [designedForRemanufacturing<sup>dp</sup>](#)
- [designedForReuse<sup>dp</sup>](#)

## design for recycling amounts<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/designForRecyclingAmounts>

**Super Property Of** [emissionByDesign<sup>dp</sup>](#)

## designed for recycling<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/designedForRecycling>

### Description

The product is designed for recycling?

**Sub Property Of** [designForProperties<sup>dp</sup>](#)

## designed for refurbishment<sup>dp</sup>

**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<sup>dp</sup>

**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<sup>dp</sup>

**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<sup>dp</sup>](#)

## designed for reuse w minimal mod<sup>dp</sup>

**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** [designedForReuse<sup>dp</sup>](#)

## emission by design<sup>dp</sup>

**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<sup>dp</sup>](#)

## finishing steps<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/finishingSteps>

## material safety data sheet available<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/materialSafetyDataSheetAvailable>

**Description** Material Safety Data Sheet for the product is available.

**Sub Property Of** [availableInformation<sup>dp</sup>](#)

**Range** [xsd:boolean](#)

material safety data sheet for dyeing available<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/materialSafetyDataSheetForDyeingAvailable>

**Description** Material Safety Data Sheets for Dyeing are available.

**Sub Property Of** [availableInformation](#)<sup>dp</sup>

**Range** [xsd:boolean](#)

material safety data sheet for finishing available<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/materialSafetyDataSheetForFinishingAvailable>

**Description** Material Safety Data Sheets for Finishing are available.

**Sub Property Of** [availableInformation](#)<sup>dp</sup>

**Range** [xsd:boolean](#)

technical data sheet available<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/technicalDataSheetAvailable>

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

**Sub Property Of** [availableInformation](#)<sup>dp</sup>

**Range** [xsd:boolean](#)

## Annotation Properties

C Fmapping<sup>ap</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/CFmapping>

Pcd Smapping<sup>ap</sup>

**IRI** <http://w3id.org/CEON/ontology/textile/PCDSmapping>

## Namespaces

:

<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

op

dp

ap

Classes

Object Properties

Datatype Properties

Annotation Properties