

Circular Economy Ontology Network (CEON) - Construction Module

Metadata

IRI

<http://w3id.org/CEON/demo/construction/>

Title

Circular Economy Ontology Network (CEON) - Construction Module

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Version Iri

<http://w3id.org/CEON/demo/construction/0.1/>

Version Info

0.1

Preferred Namespace Prefix

construction

Preferred Namespace Uri

<http://w3id.org/CEON/demo/construction/>

Description

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

Classes

Condition ^c	
IRI	http://w3id.org/CEON/demo/construction/Condition
In Range Of	hasCondition ^{op}
Super Class Of	FloorTileCondition ^c

Contaminant^c

IRI <http://w3id.org/CEON/demo/construction/Contaminant>

In Range Of [hasContaminant^{op}](#)

Dimensional Deviation^c

IRI <http://w3id.org/CEON/demo/construction/DimensionalDeviation>

In Range Of [hasDimensionalDeviation^{op}](#)

Fire Resistance Rating^c

IRI <http://w3id.org/CEON/demo/construction/FireResistanceRating>

In Range Of [hasFireResistanceRating^{op}](#)

Named Individuals
[F30ⁿⁱ](#)
[F60ⁿⁱ](#)

Fire Resistance Relation^c

IRI <http://w3id.org/CEON/demo/construction/FireResistanceRelation>

Sub Class Of [actorODP:ResourceParticipation](#)

Floor Tile^c

IRI <http://w3id.org/CEON/demo/construction/FloorTile>

Sub Class Of [product:Product](#)

Floor Tile Condition^c

IRI <http://w3id.org/CEON/demo/construction/FloorTileCondition>

Sub Class Of [Condition^c](#)

Named Individuals
[bad_conditionⁿⁱ](#)
[good_conditionⁿⁱ](#)
[medium_conditionⁿⁱ](#)

Floor Tile Condition Relation^C

IRI <http://w3id.org/CEON/demo/construction/FloorTileConditionRelation>

Sub Class Of [actorODP:ResourceParticipation](#)

Galvanized Steel Material^C

IRI <http://w3id.org/CEON/demo/construction/GalvanizedSteelMaterial>

Sub Class Of [material:Material](#)

Policy On Treatment^C

IRI <http://w3id.org/CEON/demo/construction/PolicyOnTreatment>

In Range Of [policyOnTreatment](#)^{op}

Named Individuals [refurbish](#)ⁿⁱ
[reprocess](#)ⁿⁱ
[reuse](#)ⁿⁱ

Product Quality^C

IRI <http://w3id.org/CEON/demo/construction/ProductQuality>

In Range Of [hasProductQuality](#)^{op}

Named Individuals [product_quality_high](#)ⁿⁱ
[product_quality_low](#)ⁿⁱ
[product_quality_medium](#)ⁿⁱ

Treatment Policy^C

IRI <http://w3id.org/CEON/demo/construction/TreatmentPolicy>

Named Individuals [refurbish](#)ⁿⁱ
[reprocess](#)ⁿⁱ
[reuse](#)ⁿⁱ

Object Properties

has condition^{op}

IRI <http://w3id.org/CEON/demo/construction/hasCondition>

Sub Property Of [topObjectProperty^{op}](#)

Domain [product:Product^c](#) or [product:ProductObject^c](#)

Range [Condition^c](#)

has contaminant^{op}

IRI <http://w3id.org/CEON/demo/construction/hasContaminant>

Domain [product:Product](#)

Range [Contaminant^c](#)

has dimension^{op}

IRI <http://w3id.org/CEON/demo/construction/hasDimension>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

Super Property Of

- [hasHeight^{op}](#)
- [hasThickness^{op}](#)
- [hasWidth^{op}](#)

Domain [product:ProductObject^c](#) or [product:Product^c](#)

has dimensional deviation^{op}

IRI <http://w3id.org/CEON/demo/construction/hasDimensionalDeviation>

Sub Property Of [topObjectProperty^{op}](#)

Domain [product:Product](#)

Range [DimensionalDeviation^c](#)

has distance to recycling plant^{op}

IRI <http://w3id.org/CEON/demo/construction/hasDistanceToRecyclingPlant>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

has fire resistance rating^{op}

IRI <http://w3id.org/CEON/demo/construction/hasFireResistanceRating>

Sub Property Of [topObjectProperty^{op}](#)

Domain [product:ProductObject^c](#) or [product:Product^c](#)

Range [FireResistanceRating^c](#)

has height^{op}

IRI <http://w3id.org/CEON/demo/construction/hasHeight>

Sub Property Of [hasDimension^{op}](#)

has market value for new product^{op}

IRI <http://w3id.org/CEON/demo/construction/hasMarketValueForNewProduct>

Sub Property Of [quantity:hasMarketValue](#)

Domain [product:Product](#)

has market value for reused product^{op}

IRI <http://w3id.org/CEON/demo/construction/hasMarketValueForReusedProduct>

Sub Property Of [quantity:hasMarketValue](#)

Domain [product:Product](#)

has product quality^{op}

IRI	http://w3id.org/CEON/demo/construction/hasProductQuality
<u>Sub Property Of</u>	topObjectProperty^{op}
<u>Domain</u>	product:Product^c <i>or</i> product:ProductObject^c
<u>Range</u>	ProductQuality^c

has recycling potential^{op}

IRI	http://w3id.org/CEON/demo/construction/hasRecyclingPotential
<u>Sub Property Of</u>	http://qudt.org/schema/qudt/quantityValue
<u>Domain</u>	product:Product^c <i>or</i> product:ProductObject^c

has recycling separability^{op}

IRI	http://w3id.org/CEON/demo/construction/hasRecyclingSeparability
<u>Sub Property Of</u>	http://qudt.org/schema/qudt/quantityValue
<u>Domain</u>	product:Product^c <i>or</i> product:ProductObject^c

has resistance to earth^{op}

IRI	http://w3id.org/CEON/demo/construction/hasResistanceToEarth
<u>Sub Property Of</u>	http://qudt.org/schema/qudt/quantityValue
<u>Domain</u>	product:Product

has reuse deconstructability^{op}

IRI	http://w3id.org/CEON/demo/construction/hasReuseDeconstructability
<u>Sub Property Of</u>	http://qudt.org/schema/qudt/quantityValue
<u>Domain</u>	product:Product

has system weight^{op}

IRI <http://w3id.org/CEON/demo/construction/hasSystemWeight>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

Domain [product:ProductObject^c](#) or [product:Product^c](#)

has thickness^{op}

IRI <http://w3id.org/CEON/demo/construction/hasThickness>

Sub Property Of [hasDimension^{op}](#)

has use span^{op}

IRI <http://w3id.org/CEON/demo/construction/hasUseSpan>

Sub Property Of <http://qudt.org/schema/qudt/quantityValue>

Super Property Of

- [hasUseSpanRemaining^{op}](#)
- [hasUseSpanTotal^{op}](#)

Domain [product:Product^c](#) or [product:ProductObject^c](#)

has use span remaining^{op}

IRI <http://w3id.org/CEON/demo/construction/hasUseSpanRemaining>

Sub Property Of [hasUseSpan^{op}](#)

has use span total^{op}

IRI <http://w3id.org/CEON/demo/construction/hasUseSpanTotal>

Sub Property Of [hasUseSpan^{op}](#)

has width^{op}

IRI <http://w3id.org/CEON/demo/construction/hasWidth>

Sub Property Of [hasDimension^{op}](#)

policy on treatment^{op}

IRI <http://w3id.org/CEON/demo/construction/policyOnTreatment>

Sub Property Of [topObjectProperty^{op}](#)

Domain [product:Product](#)

Range [PolicyOnTreatment^c](#)

installation location^{op}

IRI <http://w3id.org/CEON/demo/construction/installationLocation>

Sub Property Of [topObjectProperty^{op}](#)

has dismantling cost^{op}

IRI <http://w3id.org/CEON/demo/construction/hasDismantlingCost>

Sub Property Of [topObjectProperty^{op}](#)

Datatype Properties

has accessories^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasAccessories>

Domain [product:ProductObject^c](#) or [product:Product^c](#)

Range [xsd:string](#)

has dismantling method^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasDismantlingMethod>

Sub Property Of [topDataProperty^{dp}](#)

Domain [product:ProductObject^c](#) or [product:Product^c](#)

Range [xsd:string](#)

has installation date^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasInstallationDate>

Sub Property Of [topDataProperty^{dp}](#)

Domain [product:ProductObject](#)

Range [xsd:date](#)

has packaging recommendations after dismantling^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasPackagingRecommendationsAfterDismantling>

Sub Property Of [topDataProperty^{dp}](#)

Domain [product:Product^c](#) *or* [product:ProductObject^c](#)

Range [xsd:string](#)

has product description^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasProductDescription>

Sub Property Of [topDataProperty^{dp}](#)

Domain [product:ProductObject^c](#) *or* [product:Product^c](#)

Range [xsd:string](#)

has product id^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasProductID>

Sub Property Of [topDataProperty^{dp}](#)

Domain [product:Product^c](#) *or* [product:ProductObject^c](#)

Range [xsd:int](#)

has production date^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasProductionDate>

Sub Property Of [topDataProperty](#)^{dp}

Domain [product:ProductObject](#)

Range [xsd:date](#)

has production site^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasProductionSite>

Sub Property Of [topDataProperty](#)^{dp}

Domain [product:Product](#)^c *or* [product:ProductObject](#)^c

Range [xsd:string](#)

has refurbishment method^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasRefurbishmentMethod>

Sub Property Of [topDataProperty](#)^{dp}

Domain [product:Product](#)^c *or* [product:ProductObject](#)^c

Range [xsd:string](#)

has take back program from original manufacturer^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasTakeBackProgramFromOriginalManufacturer>

Sub Property Of [topDataProperty](#)^{dp}

Domain [product:Product](#)

Range [xsd:boolean](#)

has take back program other manufacturer^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasTakeBackProgramOtherManufacturer
<u>Sub Property Of</u>	topDataProperty ^{dp}
<u>Domain</u>	product:Product
<u>Range</u>	xsd:boolean

has technical requirements for take back for recycling^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasTechnicalRequirementsForTakeBackForRecycling
<u>Sub Property Of</u>	topDataProperty ^{dp}
<u>Domain</u>	product:Product ^c <i>or</i> product:ProductObject ^c
<u>Range</u>	xsd:string

has technical requirements for take back for reuse^{dp}

IRI	http://w3id.org/CEON/demo/construction/hasTechnicalRequirementsForTakeBackForReuse
<u>Sub Property Of</u>	topDataProperty ^{dp}
<u>Domain</u>	product:ProductObject ^c <i>or</i> product:Product ^c
<u>Range</u>	xsd:string

is contaminated^{dp}

IRI	http://w3id.org/CEON/demo/construction/isContaminated
<u>Sub Property Of</u>	topDataProperty ^{dp}
<u>Domain</u>	product:Product ^c <i>or</i> product:ProductObject ^c
<u>Range</u>	xsd:boolean

construction year^{dp}

IRI <http://w3id.org/CEON/demo/construction/constructionYear>

Sub Property Of [topDataProperty](#)^{dp}

Range [xsd:gYear](#)

has dismantling instruction^{dp}

IRI <http://w3id.org/CEON/demo/construction/hasDismantlingInstruction>

Sub Property Of [topDataProperty](#)^{dp}

Range [xsd:anyURI](#)

Annotation Properties

contributor^{ap}

IRI <http://purl.org/dc/terms/contributor>

created^{ap}

IRI <http://purl.org/dc/terms/created>

creator^{ap}

IRI <http://purl.org/dc/terms/creator>

description^{ap}

IRI <http://purl.org/dc/terms/description>

license^{ap}

IRI <http://purl.org/dc/terms/license>

title ^{ap}	
IRI	http://purl.org/dc/terms/title
preferred namespace prefix ^{ap}	
IRI	http://purl.org/vocab/vann/preferredNamespacePrefix
preferred namespace uri ^{ap}	
IRI	http://purl.org/vocab/vann/preferredNamespaceUri
covers requirements ^{ap}	
IRI	http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements

Namespaces

:

<http://w3id.org/CEON/demo/construction/>

actor

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

actorODP

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

datasheet

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

dcterms

<http://purl.org/dc/terms/>

material

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

odp

<http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#>

owl

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

product

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

prov

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

quantity

<http://w3id.org/CEON/ontology/quantity#>

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