

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
<u>In Range Of</u>	hasCondition ^{op}
<u>Super Class Of</u>	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:Product^c](#) or [product:ProductObject^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:Product^c](#) or [product:ProductObject^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>

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

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

Range [ProductQuality^c](#)

has recycling potential^{op}

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

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

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

has recycling separability^{op}

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

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

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

has resistance to earth^{op}

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

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

Domain [product:Product](#)

has reuse deconstructability^{op}

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

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

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

Datatype Properties

has accessories^{dp}

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

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

Range [xsd:string](#)

has dismantling method^{dp}

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

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

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

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

Domain [product:Product](#)

Range [xsd:boolean](#)

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

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

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

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

is contaminated^{dp}

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