

Circular Economy Ontology Network (CEON) - Product Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Product Module

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Version Iri

<http://w3id.org/CEON/ontology/product/0.2/>

Version Info

0.2

Preferred Namespace Prefix

product

Preferred Namespace Uri

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

Description

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

Covers Requirements

In addition to requirements covered by imported ODPs, covers the following requirements from Onto-DESIDE D3.1: CVN-Resource-2, CVN-ResourceType-4, C11-2, C12-1, C13-3, E2-1, T8-3.

Classes

MatterComposition^C

IRI	http://w3id.org/CEON/ontology/product/MatterComposition
Description	A product composition is the composed information of a product in terms of a specific component, in which such a component is also a matter.
Sub Class Of	resourceODP:Composition
In Domain Of	associatedWithMatter ^{op}
Restriction	associatedWithMatter ^{op} <i>exactly</i> 1 MatterComposition ^C

Product Model^C

IRI	http://w3id.org/CEON/ontology/product/Product
Description	A product model is a model that is used for manufacturing products.
In Range Of	associatedWithProductModel ^{op} modelledBy ^{op}
Restriction	has composition ^{op} some Product Model ^C has composition ^{op} some Product Model ^C

ProductComposition^C

IRI	http://w3id.org/CEON/ontology/product/ProductComposition
Description	A product composition is the composed information of a product in terms of a specific component, in which such a component is also a product.
Sub Class Of	resourceODP:Composition
In Domain Of	associatedWithProductModel ^{op}
Restriction	associatedWithProductModel ^{op} <i>exactly</i> 1 ProductComposition ^C

ProductObject^C

IRI	http://w3id.org/CEON/ontology/product/ProductObject
Description	A product object is a physical object put into a market for sale. The product can be a thing that grows naturally or produced through some chemical or manufacturing processes.
Sub Class Of	resourceODP:PhysicalObject
In Domain Of	hasProductComponent ^{op} modelledBy ^{op}
In Range Of	hasProductComponent ^{op}
Restriction	modelledBy ^{op} <i>exactly</i> 1 ProductObject ^C

Object Properties

associatedWithMatter^{op}

IRI	http://w3id.org/CEON/ontology/product/associatedWithMatter
Description	associatedWithMatter intends to represent the matter to which a matter composition information regards to.
Domain	MatterComposition ^C
Range	resourceODP:Matter

associatedWithProductModel^{op}

IRI	http://w3id.org/CEON/ontology/product/associatedWithProductModel
Description	associatedWithProductModel intends to represent the matter to which a product composition information regards to.
Domain	ProductComposition ^C
Range	Product Model ^C

batchOfProduct^{op}

IRI	http://w3id.org/CEON/ontology/product/batchOfProduct
Description	batchOfProduct intends to represent what is the model product of a batch of objects.

has composition^{op}

IRI	http://w3id.org/CEON/ontology/product/hasComposition
Description	hasComposition intends to represent that a product model or physical object can have composition information.
Domain	resourceODP:PhysicalObject^c or Product Model^c
Range	resourceODP:Composition

hasProductComponent^{op}

IRI	http://w3id.org/CEON/ontology/product/hasProductComponent
Description	hasProductComponent intends to represent that a product can have other product components.
Domain	ProductObject^c
Range	ProductObject^c

modelledBy^{op}

IRI	http://w3id.org/CEON/ontology/product/modelledBy
Description	modelledBy intends to represent that product objects follow particular product models.
Domain	ProductObject^c
Range	Product Model^c

Datatype Properties

compositionQuantity ^{dp}	
IRI	http://w3id.org/CEON/ontology/product/compositionQuantity
Description	compositionQuantity intends to represent the quantity value of composed elements of a composition. The quantity value can be the number of a element or the percentage of a element.
Domain	resourceODP:Composition
Range	xsd:double ^c or xsd:positiveInteger ^c

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/ontology/product/>

dcterms

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

odp

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

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#>

resourceODP

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

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