

# Circular Economy Ontology Network (CEON) - Product Module

## Metadata

### IRI

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

### Title

Circular Economy Ontology Network (CEON) - Product Module

### Creator

Huanyu Li

### Contributor

Eva Blomqvist

Mikael Lindecrantz

Robin Keskisärkkä

### Date Created

2023-03-16

### License

<https://github.com/LiUSemWeb/CEON/blob/master/LICENSE>

### Version Iri

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

### Version Info

0.1

### Preferred Namespace Prefix

product

### Preferred Namespace Uri

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

## Product<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/product/Product>

**Description**

A product 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<sup>C</sup>](#)  
[hasProductComponent<sup>op</sup>](#) only  
and [hasProductComponent<sup>op</sup>](#) some

**In Domain Of**

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

## ProductComponent<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/product/ProductComponent>

**Description**

A product component is a part of a product.

**Sub Class Of**

[resourceODP:Constituent<sup>C</sup>](#)

**In Range Of**

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

## Constituent<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/resourceODP/Constituent>

**Super Class Of**

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

## Matter<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/resourceODP/Matter>

## Physical Object<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/resourceODP/PhysicalObject>

**Super Class Of**

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

## Resource<sup>c</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/resourceODP/Resource">http://w3id.org/CEON/ontology/resourceODP/Resource</a>
------------	---

## Object Properties

### hasProductComponent<sup>op</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/product/hasProductComponent">http://w3id.org/CEON/ontology/product/hasProductComponent</a>
------------	---

<b>Description</b>	hasProductComponent intends to represent that a product can have a collection of components.
--------------------	--

<b>Domain</b>	<a href="#">Product<sup>c</sup></a>
---------------	-------------------------------------

<b>Range</b>	<a href="#">ProductComponent<sup>c</sup></a>
--------------	--

## Namespaces

### dcterms

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

### 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#>

### 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/>

## Legend

<sup>c</sup>

Classes

<sup>op</sup>

Object Properties