Circular Economy Ontology Network (CEON) - Electronics Module

Metadata

IRI

http://w3id.org/CEON/demo/electronics/

Title

Circular Economy Ontology Network (CEON) - Electronics Module

Creator

Huanyu Li

Contributor

Eva Blomqvist

Mikael Lindecrantz

Robin Keskisärkkä

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Version Iri

http://w3id.org/CEON/demo/electronics/0.1/

Version Info

0.1

Preferred Namespace Uri

http://w3id.org/CEON/demo/electronics/

Description

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

Classes

Derived Unit [c]

IRI	http://qudt.org/schema/qudt/DerivedUnit
Is Defined By	http://qudt.org/2.1/schema/qudt
Description	A DerivedUnit is a type specification for units that are derived from other units.
Sub Class Of	http://qudt.org/schema/qudt/Unit
Named Individuals	pascal second [ni]

Actinoids Metal ^C

IRI http://w3id.org/CEON/demo/electronics/ActinoidsMetal

Sub Class Of MetalMaterial ^C

Adhesive Material ^C

IRI http://w3id.org/CEON/demo/electronics/AdhesiveMaterial

Sub Class Of http://w3id.org/CEON/ontology/material/Material

Alkali Metal ^C

IRI http://w3id.org/CEON/demo/electronics/AlkaliMetal

Sub Class Of MetalMaterial ^C

Alkaline Earth Metal ^C

IRI http://w3id.org/CEON/demo/electronics/AlkalineEarthMetal

Sub Class Of MetalMaterial ^C

Aluminum Dome Tweeter ^C

IRI http://w3id.org/CEON/demo/electronics/AluminumDomeTweeter

Sub Class Of ElectronicsProduct ^C

Bromide Material ^C

IRI http://w3id.org/CEON/demo/electronics/BromideMaterial

Sub Class Of http://w3id.org/CEON/ontology/material/Material

Catalyst Material ^C

IRI http://w3id.org/CEON/demo/electronics/CatalystMaterial

Sub Class Of http://w3id.org/CEON/ontology/material/Material

Core Material ^C

IRI http://w3id.org/CEON/demo/electronics/CoreMaterial

Sub Class Of http://w3id.org/CEON/ontology/material/Material

Coupling Cone ^C

IRI http://w3id.org/CEON/demo/electronics/CouplingCone

Sub Class Of ElectronicsProduct ^C

Damper ^C

IRI http://w3id.org/CEON/demo/electronics/Damper

Sub Class Of ElectronicsProduct ^C

Named Individuals damper_x ⁿⁱ

Double Magnet ^C

IRI http://w3id.org/CEON/demo/electronics/DoubleMagnet

Sub Class Of ElectronicsProduct ^C

Electronics Product ^C

IRI http://w3id.org/CEON/demo/electronics/ElectronicsProduct

Sub Class Of http://w3id.org/CEON/ontology/product/Product

Super Class Of
AluminumDomeTweeter ^C
CouplingCone ^C
Damper ^C
DoubleMagnet ^C
Frame ^C
NeodymiumMagnet ^C
Speaker ^C

Electronics Product Sourcing Component Relation ^C

IRI   http://w3id.org/CEON/demo/electronics/ElectronicsProductSourcingComponentRelation

Sub Class Of   http://w3id.org/CEON/ontology/provenance/Statement

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Fibre M Aterial ^C

IRI   http://w3id.org/CEON/demo/electronics/FibreMAterial

Sub Class Of   http://w3id.org/CEON/ontology/material/Material

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Flame Retardant Material ^C

IRI   http://w3id.org/CEON/demo/electronics/FlameRetardantMaterial

Sub Class Of   http://w3id.org/CEON/ontology/material/Material

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Frame ^C

IRI   http://w3id.org/CEON/demo/electronics/Frame

Sub Class Of   ElectronicsProduct ^C

Hardener Material ^C

IRI   http://w3id.org/CEON/demo/electronics/HardenerMaterial

Sub Class Of   http://w3id.org/CEON/ontology/material/Material

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Lca Unit ^C

IRI   http://w3id.org/CEON/demo/electronics/LCAUnit

Sub Class Of   http://qudt.org/schema/qudt/Unit

Laminate Material ^C

IRI   http://w3id.org/CEON/demo/electronics/LaminateMaterial

Sub Class Of   http://w3id.org/CEON/ontology/material/Material

Matrix Additive M Aterial [C]

IRI http://w3id.org/CEON/demo/electronics/MatrixAdditiveMAterial

Sub Class Of http://w3id.org/CEON/ontology/material/Material

Metal Material [C]

IRI http://w3id.org/CEON/demo/electronics/MetalMaterial

Sub Class Of http://w3id.org/CEON/ontology/material/Material

Super Class Of

ActinoidsMetal [C]
AlkaliMetal [C]
AlkalineEarthMetal [C]
TransitionalMetal [C]

Neodymium Magnet [C]

IRI http://w3id.org/CEON/demo/electronics/NeodymiumMagnet

Sub Class Of ElectronicsProduct [C]

Named Individuals neodymium_magnet_x [ni]

Non Metal Material [C]

IRI http://w3id.org/CEON/demo/electronics/NonMetalMaterial

Sub Class Of http://w3id.org/CEON/ontology/material/Material

Named Individuals

carbon_material_a [ni]
nitrogen_material_a [ni]

Post Consumer Recycled Content [C]

IRI http://w3id.org/CEON/demo/electronics/PostConsumerRecycledContent

Sub Class Of http://qudt.org/schema/qudt/Quantity

Pre Consumer Recycled Content [C]

IRI   http://w3id.org/CEON/demo/electronics/PreConsumerRecycledContent

Sub Class Of   http://qudt.org/schema/qudt/Quantity

Prepreg Material [C]

IRI   http://w3id.org/CEON/demo/electronics/PrepregMaterial

Sub Class Of   http://w3id.org/CEON/ontology/material/Material

Rare Earth Material [C]

IRI   http://w3id.org/CEON/demo/electronics/RareEarthMaterial

Sub Class Of   http://w3id.org/CEON/ontology/material/Material

Renewable Content [C]

IRI   http://w3id.org/CEON/demo/electronics/RenewableContent

Sub Class Of   http://qudt.org/schema/qudt/Quantity

Resin Material [C]

IRI   http://w3id.org/CEON/demo/electronics/ResinMaterial

Sub Class Of   http://w3id.org/CEON/ontology/material/Material

Speaker [C]

IRI   http://w3id.org/CEON/demo/electronics/Speaker

Sub Class Of   ElectronicsProduct [C]

Named Individuals speaker_x [ni]

Surface Finish Material [C]

IRI   http://w3id.org/CEON/demo/electronics/SurfaceFinishMaterial

Sub Class Of   http://w3id.org/CEON/ontology/material/Material

Transitional Metal [C]

IRI   http://w3id.org/CEON/demo/electronics/TransitionalMetal

Sub Class Of MetalMaterial [C]

Virgin Fossil Content [C]

IRI   http://w3id.org/CEON/demo/electronics/VirginFossilContent

Sub Class Of http://qudt.org/schema/qudt/Quantity

Regulation [C]

IRI   http://w3id.org/CEON/demo/electronics/Regulation

Named Individuals REACH [ni]

Reach Compliance [C]

IRI   http://w3id.org/CEON/demo/electronics/REACHCompliance

Sub Class Of http://w3id.org/CEON/ontology/product/Compliance

Equivalentclass complianceWith value REACH [C]

Issuing Resource [C]

IRI   http://w3id.org/CEON/ontology/actor/IssuingResource

Named Individuals ds_issue_1 [ni]

Process Participation [C]

IRI   http://w3id.org/CEON/ontology/actor/ProcessParticipation

Named Individuals s63 [ni]

Producing Resource [C]

IRI http://w3id.org/CEON/ontology/actor/ProducingResource

Named Individuals
ss_1 [ni]
ss_2 [ni]
ss_3 [ni]

Supplying Resource [C]

IRI http://w3id.org/CEON/ontology/actor/SupplyingResource

Named Individuals s7 [ni]

Actor [C]

IRI http://w3id.org/CEON/ontology/actorODP/Actor

Named Individuals
M [ni]
company_a [ni]
company_b [ni]
company_x [ni]
company_y [ni]
dismantling_company_b [ni]

Resource Relation [C]

IRI http://w3id.org/CEON/ontology/actorODP/ResourceRelation

Named Individuals composition_a [ni]

Process [C]

IRI http://w3id.org/CEON/ontology/processODP/Process

Named Individuals dismantling_process_1 [ni]

Object Properties

defined unit of system ^{op}

IRI http://qudt.org/schema/qudt/definedUnitOfSystem

derived coherent unit of system ^{op}

IRI http://qudt.org/schema/qudt/derivedCoherentUnitOfSystem

exact match ^{op}

IRI http://qudt.org/schema/qudt/exactMatch

has dimension vector ^{op}

IRI http://qudt.org/schema/qudt/hasDimensionVector

has unit ^{op}

IRI http://qudt.org/schema/qudt/hasUnit

participant role ^{op}

IRI http://w3id.org/CEON/ontology/actorODP/participantRole

participating actor ^{op}

IRI http://w3id.org/CEON/ontology/actorODP/participatingActor

participating resource ^{op}

IRI http://w3id.org/CEON/ontology/actorODP/participatingResource

participation in ^{op}

IRI http://w3id.org/CEON/ontology/actorODP/participationIn

Datatype Properties

conversion multiplier ^{dp}

IRI   http://qudt.org/schema/qudt/conversionMultiplier

iec61360code ^{dp}

IRI   http://qudt.org/schema/qudt/iec61360Code

numerical value ^{dp}

IRI   http://qudt.org/schema/qudt/numericalValue

si units expression ^{dp}

IRI   http://qudt.org/schema/qudt/siUnitsExpression

Lca-Acidification ^{dp}

IRI   http://w3id.org/CEON/demo/electronics/LCA-Acidification

Range   xsd:double

Lca-Climate Change ^{dp}

IRI   http://w3id.org/CEON/demo/electronics/LCA-ClimateChange

Range   xsd:double

Lca-Climate Change Biogenic ^{dp}

IRI   http://w3id.org/CEON/demo/electronics/LCA-ClimateChangeBiogenic

Range   xsd:double

Lca-Climate Change Fossil ^{dp}

IRI   http://w3id.org/CEON/demo/electronics/LCA-ClimateChangeFossil

Range   xsd:double

Lca-Ecotoxicity Freshwater ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/LCA-EcotoxicityFreshwater
Range	xsd:double

Lca-Eutrophication Freshwater ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/LCA-EutrophicationFreshwater
Range	xsd:double

Lca-Eutrophication Marine ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/LCA-EutrophicationMarine
Range	xsd:double

Lca-Human Toxicity Cancer ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/LCA-HumanToxicityCancer
Range	xsd:double

Lca-Lonising Radition Human Health ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/LCA-LonisingRaditionHumanHealth
Range	xsd:double

Lca-Mineral Use ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/LCA-MineralUse
Range	xsd:double

Lca-Water Use ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/LCA-WaterUse
Range	xsd:double

batch number ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/batchNumber
Domain	http://w3id.org/CEON/ontology/resourceODP/BatchOfObjects
Range	xsd:integer

component diameter ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/componentDiameter
Range	xsd:double

component length ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/componentLength
Range	xsd:double

date of decomissioning ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/dateOfDecomissioning
Range	xsd:dateTime

date of installation ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/dateOfInstallation
Range	xsd:dateTime

date of production ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/dateOfProduction
Domain	http://w3id.org/CEON/ontology/resourceODP/BatchOfObjects
Range	xsd:dateTime

decommission reason ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/decommissionReason
Range	xsd:string

density at25 ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/densityAt25
Range	xsd:double

electrical conductivity ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/electricalConductivity
Range	xsd:double

electrical resistivity ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/electricalResistivity
Range	xsd:double

fatigue resistance ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/fatigueResistance

fiber elongation at break ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/fiberElongationAtBreak
Range	xsd:double

fibre volume content ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/fibreVolumeContent
Range	xsd:double

flame retardancy ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/flameRetardancy
Range	xsd:boolean

hazardous materials percentage ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/hazardousMaterialsPercentage
Range	xsd:double

high uv resistance ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/highUVResistance
Range	xsd:boolean

instruction of repair ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/instructionOfRepair
Range	xsd:string

instruction of use and assembly ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/instructionOfUseAndAssembly
Range	xsd:string

instructionof maintenance ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/instructionofMaintenance
Range	xsd:string

lay up sequence ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/layUpSequence
Range	xsd:string

location of batch component ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/locationOfBatchComponent
Range	xsd:string

maintenance report ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/maintenanceReport
Range	xsd:string

manufacturing sequence ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/manufacturingSequence
Range	xsd:string

number of recycling cycles ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/numberOfRecyclingCycles

product diameter ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/productDiameter
Range	xsd:double

recycling pressure ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/recyclingPressure
Range	xsd:double

recycling process duration ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/recyclingProcessDuration
Range	xsd:double

recycling process name ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/recyclingProcessName
Range	xsd:string

recycling temperature ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/recyclingTemperature
Range	xsd:double

refractive index at25 ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/refractiveIndexAt25
Range	xsd:double

reported damage ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/reportedDamage
Range	xsd:string

reported repairs ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/reportedRepairs
Range	xsd:string

sample length ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/sampleLength
Range	xsd:double

shear strength ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/shearStrength
Range	xsd:double

site address ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/siteAddress
Range	xsd:string

site city ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/siteCity
Range	xsd:string

site country ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/siteCountry
Range	xsd:string

site name ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/siteName
Range	xsd:string

site zip code ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/siteZipCode
Range	xsd:string

size level ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/sizeLevel
Range	xsd:double

stiffness ^{dp}

IRI	http://w3id.org/CEON/demo/electronics/stiffness
Range	xsd:double

tensile modulus ^{dp}

IRI   http://w3id.org/CEON/demo/electronics/tensileModulus

Range   xsd:double

tensile strength ^{dp}

IRI   http://w3id.org/CEON/demo/electronics/tensileStrength

Range   xsd:double

transition temperature ^{dp}

IRI   http://w3id.org/CEON/demo/electronics/transitionTemperature

Range   xsd:double

viscosity at25 ^{dp}

IRI   http://w3id.org/CEON/demo/electronics/viscosityAt25

Range   xsd:double

participation time point ^{dp}

IRI   http://w3id.org/CEON/ontology/actorODP/participationTimePoint

Annotation Properties

expression ^{ap}

IRI   http://qudt.org/schema/qudt/expression

participating object ^{ap}

IRI   http://w3id.org/CEON/ontology/actorODP/participatingObject

statement about ^{ap}

| IRI | http://w3id.org/CEON/ontology/provenance/statementAbout |

Namespaces

:

http://w3id.org/CEON/demo/electronics/

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	Classes
op	Object Properties
dp	Datatype Properties
ap	Annotation Properties