Circular Economy Ontology Network (CEON) - Electronics Module

Metadata

IRI

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

Title

Circular Economy Ontology Network (CEON) - Electronics Module

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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

Fibre M Aterial [C]

IRI	http://w3id.org/CEON/demo/electronics/FibreMAterial
Sub Class Of	http://w3id.org/CEON/ontology/material/Material

Flame Retardant Material [C]

IRI	http://w3id.org/CEON/demo/electronics/FlameRetardantMaterial
Sub Class Of	http://w3id.org/CEON/ontology/material/Material

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

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

participating subject [ap]

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

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