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#

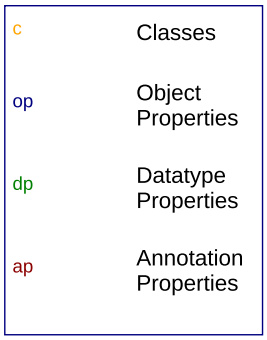
rdf
http://www.w3.org/1999/02/22-rdf-syntax-ns#

rdfs
http://www.w3.org/2000/01/rdf-schema#

vann
http://purl.org/vocab/vann/

xsd
http://www.w3.org/2001/XMLSchema#

Legend


c
Classes
op
Object Properties
dp
Datatype Properties
ap
Annotation Properties