

# Circular Economy Ontology Network (CEON) - Electronics Module

## Metadata

### IRI

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

### Title

Circular Economy Ontology Network (CEON) - Electronics Module

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### Version Iri

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

### Version Info

0.1

### Preferred Namespace Uri

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

### Description

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

## Classes

Derived Unit <sup>c</sup>	
IRI	<a href="http://qudt.org/schema/qudt/DerivedUnit">http://qudt.org/schema/qudt/DerivedUnit</a>
Is Defined By	<a href="http://qudt.org/2.1/schema/qudt">http://qudt.org/2.1/schema/qudt</a>
Description	A DerivedUnit is a type specification for units that are derived from other units.
Sub Class Of	<a href="http://qudt.org/schema/qudt/Unit">http://qudt.org/schema/qudt/Unit</a>
Named Individuals	<a href="#">pascal second</a> <sup>ni</sup>

## Issuing Resource<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/actor/IssuingResource>

**Named Individuals** [ds\\_issue\\_1<sup>ni</sup>](#)

## Process Participation<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/actor/ProcessParticipation>

**Named Individuals** [s63<sup>ni</sup>](#)

## Producing Resource<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/actor/ProducingResource>

**Named Individuals** [ss\\_1<sup>ni</sup>](#)  
[ss\\_2<sup>ni</sup>](#)  
[ss\\_3<sup>ni</sup>](#)

## Supplying Resource<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/actor/SupplyingResource>

**Named Individuals** [s7<sup>ni</sup>](#)

## Actor<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/Actor>

**Named Individuals** [M<sup>ni</sup>](#)  
[company\\_a<sup>ni</sup>](#)  
[company\\_b<sup>ni</sup>](#)  
[company\\_x<sup>ni</sup>](#)  
[company\\_y<sup>ni</sup>](#)  
[dismantling\\_company\\_b<sup>ni</sup>](#)

## Resource Relation<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/ResourceRelation>

**Named Individuals** [composition\\_a<sup>ni</sup>](#)

## Actinoids Metal<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/ActinoidsMetal>

**Sub Class Of** [MetalMaterial<sup>C</sup>](#)

## Adhesive Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/AdhesiveMaterial>

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

## Alkali Metal<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/AlkaliMetal>

**Sub Class Of** [MetalMaterial<sup>C</sup>](#)

## Alkaline Earth Metal<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/AlkalineEarthMetal>

**Sub Class Of** [MetalMaterial<sup>C</sup>](#)

## Aluminum Dome Tweeter<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/AluminumDomeTweeter>

**Sub Class Of** [ElectronicsProduct<sup>C</sup>](#)

## Bromide Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/BromideMaterial>

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

## Catalyst Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/CatalystMaterial>

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

## Core Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/CoreMaterial>

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

## Coupling Cone<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/CouplingCone>

**Sub Class Of** [ElectronicsProduct<sup>C</sup>](#)

## Damper<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/Damper>

**Sub Class Of** [ElectronicsProduct<sup>C</sup>](#)

**Named Individuals** [damper\\_x<sup>ni</sup>](#)

## Double Magnet<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/DoubleMagnet>

**Sub Class Of** [ElectronicsProduct<sup>C</sup>](#)

## Electronics Product<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/ElectronicsProduct>

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

**Super Class Of**

- [AluminumDomeTweeter<sup>C</sup>](#)
- [CouplingCone<sup>C</sup>](#)
- [Damper<sup>C</sup>](#)
- [DoubleMagnet<sup>C</sup>](#)
- [Frame<sup>C</sup>](#)
- [NeodymiumMagnet<sup>C</sup>](#)
- [Speaker<sup>C</sup>](#)

## Electronics Product Sourcing Component Relation<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/ElectronicsProductSourcingComponentRelation">http://w3id.org/CEON/ontology/electronics/ElectronicsProductSourcingComponentRelation</a>
<b><u>Sub Class Of</u></b>	<a href="http://w3id.org/CEON/ontology/provenance/Statement">http://w3id.org/CEON/ontology/provenance/Statement</a>

## Fibre Material<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/FibreMaterial">http://w3id.org/CEON/ontology/electronics/FibreMaterial</a>
<b><u>Sub Class Of</u></b>	<a href="http://w3id.org/CEON/ontology/material/Material">http://w3id.org/CEON/ontology/material/Material</a>

## Flame Retardant Material<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/FlameRetardantMaterial">http://w3id.org/CEON/ontology/electronics/FlameRetardantMaterial</a>
<b><u>Sub Class Of</u></b>	<a href="http://w3id.org/CEON/ontology/material/Material">http://w3id.org/CEON/ontology/material/Material</a>

## Frame<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/Frame">http://w3id.org/CEON/ontology/electronics/Frame</a>
<b><u>Sub Class Of</u></b>	<a href="#">ElectronicsProduct<sup>C</sup></a>

## Hardener Material<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/HardenerMaterial">http://w3id.org/CEON/ontology/electronics/HardenerMaterial</a>
<b><u>Sub Class Of</u></b>	<a href="http://w3id.org/CEON/ontology/material/Material">http://w3id.org/CEON/ontology/material/Material</a>

## Lca Unit<sup>C</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/LCAUnit">http://w3id.org/CEON/ontology/electronics/LCAUnit</a>
<b><u>Description</u></b>	Units for LCA (Life Cycle Assessment) environmental impact indexes
<b><u>Sub Class Of</u></b>	<a href="http://qudt.org/schema/qudt/Unit">http://qudt.org/schema/qudt/Unit</a>

## Laminate Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LaminateMaterial>

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

## Matrix Additive M Aterial<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/MatrixAdditiveMAterial>

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

## Metal Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/MetalMaterial>

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

**Super Class Of**  
[ActinoidsMetal<sup>C</sup>](#)  
[AlkaliMetal<sup>C</sup>](#)  
[AlkalineEarthMetal<sup>C</sup>](#)  
[TransitionalMetal<sup>C</sup>](#)

## Neodymium Magnet<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/NeodymiumMagnet>

**Sub Class Of** [ElectronicsProduct<sup>C</sup>](#)

**Named Individuals** [neodymium\\_magnet\\_x<sup>ni</sup>](#)

## Non Metal Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/NonMetalMaterial>

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

**Named Individuals**  
[carbon\\_material\\_a<sup>ni</sup>](#)  
[nitrogen\\_material\\_a<sup>ni</sup>](#)

## Post Customer Recycled Content<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/PostCustomerRecycledContent>

**Sub Class Of** <http://qudt.org/schema/qudt/Quantity>

**Named Individuals** [content\\_1<sup>ni</sup>](#)

## Pre Customer Recycled Content<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/PreCustomerRecycledContent>

**Description** The recycled content during the process of manufacturing or delivering products before delivering to a customer.

**Sub Class Of** <http://qudt.org/schema/qudt/Quantity>

## Prepreg Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/PrepregMaterial>

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

## Rare Earth Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/RareEarthMaterial>

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

## Renewable Content<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/RenewableContent>

**Description** The content of product/material that can be renewed.

**Sub Class Of** <http://qudt.org/schema/qudt/Quantity>

## Resin Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/ResinMaterial>

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

## Speaker<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/Speaker>

**Sub Class Of** [ElectronicsProduct<sup>C</sup>](#)

**Named Individuals** [speaker\\_x<sup>ni</sup>](#)

## Surface Finish Material<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/SurfaceFinishMaterial>

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

## Transitional Metal<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/TransitionalMetal>

**Sub Class Of** [MetalMaterial<sup>C</sup>](#)

## Virgin Fossil Content<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/VirginFossilContent>

**Sub Class Of** <http://qudt.org/schema/qudt/Quantity>

## Process<sup>C</sup>

**IRI** <http://w3id.org/CEON/ontology/processODP/Process>

**Named Individuals** [dismantling\\_process\\_1<sup>ni</sup>](#)

## Object Properties

### defined unit of system<sup>op</sup>

**IRI** <http://qudt.org/schema/qudt/definedUnitOfSystem>

### derived coherent unit of system<sup>op</sup>

**IRI** <http://qudt.org/schema/qudt/derivedCoherentUnitOfSystem>



exact match <sup>op</sup>

**IRI** <http://qudt.org/schema/qudt/exactMatch>

has dimension vector <sup>op</sup>

**IRI** <http://qudt.org/schema/qudt/hasDimensionVector>

has unit <sup>op</sup>

**IRI** <http://qudt.org/schema/qudt/hasUnit>

participant role <sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/participantRole>

participating actor <sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/participatingActor>

participating resource <sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/participatingResource>

participation in <sup>op</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/participationIn>

## Datatype Properties

conversion multiplier <sup>dp</sup>

**IRI** <http://qudt.org/schema/qudt/conversionMultiplier>

iec61360code <sup>dp</sup>

**IRI** <http://qudt.org/schema/qudt/iec61360Code>

numerical value<sup>dp</sup>

**IRI** <http://qudt.org/schema/qudt/numericalValue>

si units expression<sup>dp</sup>

**IRI** <http://qudt.org/schema/qudt/siUnitsExpression>

participation time point<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/actorODP/participationTimePoint>

Lca-Acidification<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-Acidification>

**Range** [xsd:double](#)

Lca-Climate Change<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-ClimateChange>

**Range** [xsd:double](#)

Lca-Climate Change Biogenic<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-ClimateChangeBiogenic>

**Range** [xsd:double](#)

Lca-Climate Change Fossil<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-ClimateChangeFossil>

**Range** [xsd:double](#)

Lca-Ecotoxicity Freshwater<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-EcotoxicityFreshwater>

**Range** [xsd:double](#)

## Lca-Eutrophication Freshwater<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-EutrophicationFreshwater>

**Range** [xsd:double](#)

## Lca-Eutrophication Marine<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-EutrophicationMarine>

**Range** [xsd:double](#)

## Lca-Human Toxicity Cancer<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-HumanToxicityCancer>

**Range** [xsd:double](#)

## Lca-Lonising Radition Human Health<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-LonisingRaditionHumanHealth>

**Range** [xsd:double](#)

## Lca-Mineral Use<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-MineralUse>

**Range** [xsd:double](#)

## Lca-Water Use<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/LCA-WaterUse>

**Range** [xsd:double](#)

## Batch number<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/batchNumber">http://w3id.org/CEON/ontology/electronics/batchNumber</a>
<b>Description</b>	batchNumber represents the identical information of a batch of objects.
<b>Domain</b>	<a href="http://w3id.org/CEON/ontology/resourceODP/BatchOfObjects">http://w3id.org/CEON/ontology/resourceODP/BatchOfObjects</a>
<b>Range</b>	<a href="#">xsd:integer</a>

## component diameter<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/componentDiameter">http://w3id.org/CEON/ontology/electronics/componentDiameter</a>
<b>Range</b>	<a href="#">xsd:double</a>

## component length<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/componentLength">http://w3id.org/CEON/ontology/electronics/componentLength</a>
<b>Range</b>	<a href="#">xsd:double</a>

## Date of decomissioning<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/dateOfDecomissioning">http://w3id.org/CEON/ontology/electronics/dateOfDecomissioning</a>
<b>Description</b>	dateOfDecomissioning represents the date of decomissioning of a batch of products.
<b>Range</b>	<a href="#">xsd:dateTime</a>

## Date of installation<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/dateOfInstallation">http://w3id.org/CEON/ontology/electronics/dateOfInstallation</a>
<b>Description</b>	dateOfInstallation represents the date of installation of a batch of products.
<b>Range</b>	<a href="#">xsd:dateTime</a>

## Date of production<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/dateOfProduction">http://w3id.org/CEON/ontology/electronics/dateOfProduction</a>
<b>Description</b>	dateOfProduction represents the date of production of a batch of products.
<b>Domain</b>	<a href="http://w3id.org/CEON/ontology/resourceODP/BatchOfObjects">http://w3id.org/CEON/ontology/resourceODP/BatchOfObjects</a>
<b>Range</b>	<a href="#">xsd:dateTime</a>

## decommission reason<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/decommissionReason">http://w3id.org/CEON/ontology/electronics/decommissionReason</a>
<b>Description</b>	The reason for a decommission operation.
<b>Range</b>	<a href="#">xsd:string</a>

## density at25<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/densityAt25">http://w3id.org/CEON/ontology/electronics/densityAt25</a>
<b>Range</b>	<a href="#">xsd:double</a>

## electrical conductivity<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/electricalConductivity">http://w3id.org/CEON/ontology/electronics/electricalConductivity</a>
<b>Range</b>	<a href="#">xsd:double</a>

## electrical resistivity<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/electricalResistivity">http://w3id.org/CEON/ontology/electronics/electricalResistivity</a>
<b>Range</b>	<a href="#">xsd:double</a>

## fatigue resistance<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/fatigueResistance">http://w3id.org/CEON/ontology/electronics/fatigueResistance</a>
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## fiber elongation at break<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/fiberElongationAtBreak>

**Range** [xsd:double](#)

## fibre volume content<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/fibreVolumeContent>

**Range** [xsd:double](#)

## flame retardancy<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/flameRetardancy>

**Description** Flame Retardancy property is used to represent whether a product or content resist or delay the ignition and spread of fire. This property has 'True' of 'False' values.

**Range** [xsd:boolean](#)

## hazardous materials percentage<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/hazardousMaterialsPercentage>

**Description** The percentage of hazardous materials.

**Range** [xsd:double](#)

## high uv resistance<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/highUVResistance>

**Description** High UV Resistance property is used to represent whether a product or content withstand the damaging effects of ultraviolet (UV) radiation. It has values 'True' or 'False'.

**Range** [xsd:boolean](#)

instruction of repair<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/instructionOfRepair>

**Range** [xsd:string](#)

instruction of use and assembly<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/instructionOfUseAndAssembly>

**Range** [xsd:string](#)

instructionof maintenance<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/instructionOfMaintenance>

**Range** [xsd:string](#)

lay up sequence<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/layUpSequence>

**Range** [xsd:string](#)

Location of batch component. The property may be replaced by a location module in the future.locationOfBatchComponent represents the location information of a component object within a batch.<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/locationOfBatchComponent>

**Range** [xsd:string](#)

maintenance report<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/maintenanceReport>

**Range** [xsd:string](#)

manufacturing sequence<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/manufacturingSequence>

**Range** [xsd:string](#)

number of recycling cycles<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/numberOfRecyclingCycles>

product diameter<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/productDiameter>

**Range** [xsd:double](#)

recycling pressure<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/recyclingPressure>

**Description** To represent the pressure condition in a recycling process.

**Range** [xsd:double](#)

recycling process duration<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/recyclingProcessDuration>

**Range** [xsd:double](#)

recycling process name<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/recyclingProcessName>

**Range** [xsd:string](#)

recycling temperature<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/recyclingTemperature>

**Description** To represent the temperature condition in a recycling process.

**Range** [xsd:double](#)



## refractive index at25<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/refractiveIndexAt25">http://w3id.org/CEON/ontology/electronics/refractiveIndexAt25</a>
<b><u>Range</u></b>	<a href="#">xsd:double</a>

## reported damage<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/reportedDamage">http://w3id.org/CEON/ontology/electronics/reportedDamage</a>
<b><u>Description</u></b>	reportedDamage is used to represent damage information.
<b><u>Range</u></b>	<a href="#">xsd:string</a>

## reported repairs<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/reportedRepairs">http://w3id.org/CEON/ontology/electronics/reportedRepairs</a>
<b><u>Description</u></b>	reportedRepairs is used to represent repairing information.
<b><u>Range</u></b>	<a href="#">xsd:string</a>

## sample length<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/sampleLength">http://w3id.org/CEON/ontology/electronics/sampleLength</a>
<b><u>Range</u></b>	<a href="#">xsd:double</a>

## shear strength<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/shearStrength">http://w3id.org/CEON/ontology/electronics/shearStrength</a>
<b><u>Range</u></b>	<a href="#">xsd:double</a>

## site address<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/siteAddress">http://w3id.org/CEON/ontology/electronics/siteAddress</a>
<b><u>Description</u></b>	The address of the site. This property may be replaced by a location module in the future.
<b><u>Range</u></b>	<a href="#">xsd:string</a>

## site city<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/siteCity">http://w3id.org/CEON/ontology/electronics/siteCity</a>
<b>Description</b>	The city of the site. This property may be replaced by a location module in the future.
<b>Range</b>	<a href="#">xsd:string</a>

## site country<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/siteCountry">http://w3id.org/CEON/ontology/electronics/siteCountry</a>
<b>Description</b>	The country of the site. This property may be replaced by a location module in the future.
<b>Range</b>	<a href="#">xsd:string</a>

## site name<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/siteName">http://w3id.org/CEON/ontology/electronics/siteName</a>
<b>Description</b>	The name of the site where the batch of products is located. This property may be replaced by a location module in the future.
<b>Range</b>	<a href="#">xsd:string</a>

## site zip code<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/siteZipCode">http://w3id.org/CEON/ontology/electronics/siteZipCode</a>
<b>Description</b>	The Zip Code of the site. This property may be replaced by a location module in the future.
<b>Range</b>	<a href="#">xsd:string</a>

## size level<sup>dp</sup>

<b>IRI</b>	<a href="http://w3id.org/CEON/ontology/electronics/sizeLevel">http://w3id.org/CEON/ontology/electronics/sizeLevel</a>
<b>Range</b>	<a href="#">xsd:double</a>

## stiffness<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/stiffness>

**Range** [xsd:double](#)

## tensile modulus<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/tensileModulus>

**Range** [xsd:double](#)

## tensile strength<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/tensileStrength>

**Description** Tensile Strength is a used to represent the ability of a product or some content to resist breaking when it is pulled apart. It is the maximum stress that a product can withstand before breaking.

**Range** [xsd:double](#)

## transition temperature<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/transitionTemperature>

**Description** Tg

**Range** [xsd:double](#)

## viscosity at25<sup>dp</sup>

**IRI** <http://w3id.org/CEON/ontology/electronics/viscosityAt25>

**Range** [xsd:double](#)

## Annotation Properties

expression <sup>ap</sup>	
IRI	<a href="http://qudt.org/schema/qudt/expression">http://qudt.org/schema/qudt/expression</a>
participating object <sup>ap</sup>	
IRI	<a href="http://w3id.org/CEON/ontology/actorODP/participatingObject">http://w3id.org/CEON/ontology/actorODP/participatingObject</a>
participating subject <sup>ap</sup>	
IRI	<a href="http://w3id.org/CEON/ontology/actorODP/participatingSubject">http://w3id.org/CEON/ontology/actorODP/participatingSubject</a>
statement about <sup>ap</sup>	
IRI	<a href="http://w3id.org/CEON/ontology/provenance/statementAbout">http://w3id.org/CEON/ontology/provenance/statementAbout</a>

## Namespaces

:	<a href="http://w3id.org/CEON/ontology/electronics/">http://w3id.org/CEON/ontology/electronics/</a>
dcterms	<a href="http://purl.org/dc/terms/">http://purl.org/dc/terms/</a>
owl	<a href="http://www.w3.org/2002/07/owl#">http://www.w3.org/2002/07/owl#</a>
prov	<a href="http://www.w3.org/ns/prov#">http://www.w3.org/ns/prov#</a>
rdf	<a href="http://www.w3.org/1999/02/22-rdf-syntax-ns#">http://www.w3.org/1999/02/22-rdf-syntax-ns#</a>
rdfs	<a href="http://www.w3.org/2000/01/rdf-schema#">http://www.w3.org/2000/01/rdf-schema#</a>
vann	<a href="http://purl.org/vocab/vann/">http://purl.org/vocab/vann/</a>
xsd	<a href="http://www.w3.org/2001/XMLSchema#">http://www.w3.org/2001/XMLSchema#</a>

## Legend

c	Classes
op	Object Properties
dp	Datatype Properties

