No.	Title		Requirements	Explanatory notes
1	General	1-1	1-1-1	Essentials of the
	requirements		The organization should establish, formulate in	requirements in 1-1:
		General	writing and enforce the integration system of	
		requirements	product environmental data in compliance with the	Policy decision
			requirements provided in this form, as well as	Documentation
			maintain and revise it by occasion demands.	Construction (of
			The organization should meet the following	the responsibilities,
			requirements.	authorities and
				allotted duties)
			A) The top management of the concerned	Revision
			organization is responsible for establishing the	7 processes for
			policies and goals of the enforcement of Ecoleaf	the system
			environmental labeling.	Internal
			B) The top management is responsible for	verification
			appointing the supervisor in the management rank.	
			The supervisor has the following responsibilities	"Top management"
			and rights, regardless of other responsibilities laid	is defined as
			on the same person:	managers of the
			To secure the establishment, enforcement and	department (of the business) subject to
			maintenance of the procedure necessary for the integration system of product environmental data.	System Certification
			To collect information on how the integration	System Certification
			system of product environment data is operated	
			and if any improvement is necessary, while	
			directing improvement in the case it is necessary.	
			To ensure that the staff concerned with the	
			system operation improve the awareness of	
			Ecoleaf environmental labeling.	
			C) For operating the integration system for	
			product environmental data, the necessary	
			procedure and its application to the organization	
			should be defined.	
			D) The Ecoleaf manual that contains the following	
			items should be established and maintained:	
			Applicable range of the system	
			Documentation or the reference to the	
			established processes of the system	
			Description on the interrelationship between	
			processes of the system	
			E) To execute the works for Ecolean	
			environmental labeling, skillful and experienced	
			staff with competence for decision making should be defined and assigned, while providing relevant	
			education and training to them.	
			Internal inspectors (the inspector and the deputy	
			inspector) qualified by the Ecoleaf secretariat	
			should be assigned. (It is allowable that a person	
			takes charge of the internal inspection of more	
			than one integration systems for product	
			environmental data.)	
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No.	Title		Requirements	Explanatory notes
2	Criteria of the	2-1	2-1-1	, , , , , , , , , , , , , , , , , , , ,
	requirements		Ecoleaf environmental labeling should	
		Criteria for	be executed in compliance with PSC	
		data	rules on the concerned product.	
		collection and	2-1-2	
		processing	For the collection and processing of	
			information/data required for the Ecoleaf	
			environmental labeling, the prerequisites and criteria (scenario) of eco-impact	
			calculation should be prepared, either in	
			compliance with PSC rules or in the	
			view of each concerned business.	
3	Data	3-1	3-1-1	reliable sources:
	integration		For Ecoleaf environmental labeling, the	It is defined as the information
		Integration	data integration system should be	on product design, or the
		system for	constructed and maintained available for	information source exactly
		product	gathering the following product	related to the information on
		information/	information/data with required precision <sup>1)</sup> when the necessity arises <sup>2)</sup> ,	product design. When the design/development data
		data	from reliable sources <sup>3)</sup> in view of	design/development data (which is proper to be used)
			perfection and representativeness:	are not available for output,
			A) Quality of the material composing the	Data A) and B) should be
			product	collected, based on the actual
			B) Mass of the material composing the	measurement of the product.
			product	In that case, the method and
			C) Information on	criteria applied to the data
			processing/assembling the material	collection should be clearly
			composing the product	provided. (The actual measurement is also related to
			D) Specifications of the product E) Configuration of the product	the requirement #3
			L) Configuration of the product	Measurement management.)
			See 7-2-2 "Data management."	ivieusurement munagement)
				when the necessity arises:
				This indicates when labeling
				is executed. The latest
				information should always be
				available for labeling.
				with required precision:
				The level (precision) of data
				on the material composing the
				product should be decided
				considering the ratio of
				eco-impact by the material to
				the total impact given by the
				product or in the stage.
				Additionally, other
				prerequisites, e.g. cutoff rules and the eco-impact by the data
				collection, should be also
				considered.
<u> </u>				considered.

No.	Title	Requirements	Explanatory notes
3	Data	3-2-1	The following is the
	integration	Data integration of information on	energy and material
		spent/exhausted substance on site	subject to data collection:
		To calculate the eco-impact throughout the	A) Buildings, workshops
		product manufacturing, the data integration	and the related utilities
		system should be constructed and	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		maintained available for gathering	
		necessary information/data, e.g. the type	· ·
		and amount of used energy/material, as	1 1
		well as the process flow. The system	1 0
		should collect data with required precision	
		when the necessity arises, from reliable	
		sources in view of perfection and	operation (e.g.
		representativeness.	electricity and heavy
			oil)
		See 7-2-2 "Data management."	D) Other substances
			necessary for
			supportive works (e.g.
			transportation and
			communication)

No.	Title		Requirements	Explanatory notes
3	Data	3-3	3-3-1: Integration of logistics data	The following are
	integration		In the case the common intensity provided by	samples of the
		Integration	the Ecoleaf secretariat is applied, the data	requirements for setting
		system for	integration system should be constructed and	conditions and
		information/	maintained available for gathering the	collecting data on
		data on	following logistics conditions and data, related	actual measurement:
		logistics/use/	to the products as well as its accessories and	
		disposal and	maintenance parts. The system needs to collect	In the case of actual
		recycling	data with required precision when the necessity	measurement:
			arises, from reliable sources in view of	Actual measurement
			perfection and representativeness.	should be provided
			Transportation means	with its clear evidence.
			Transportation distance	In the case
			Loading rate	conditions are setup:
			In the case actual measurements of the product	Conditions should be
			are applied, the data integration system should	provided with clear
			be constructed and maintained available for	bases.
			gathering the types and amounts of energy and	
			material spent for the transportation of the products, as well as the accessories and	
			maintenance parts. The system needs to collect	
			data with required precision when the necessity	
			arises, from reliable sources in view of	
			perfection and representativeness.	
			r	
			3-3-2: Integration of data on spent/consumed	
			substance	
			In the case actual measurements of the product	
			are applied, the data integration system should	
			be constructed and maintained available for	
			gathering the conditions and data on energy and	
			material (including the accessories and	
			maintenance parts) spent when the products are	
			used, based on the setup scenario. The system needs to measure or estimate data with required	
			precision when the necessity arises, from	
			reliable sources in view of perfection and	
			representativeness.	
			1	
			3-3-3: Integration of data on disposal/recycling	
			In case actual measurements of the product are	
			applied, the data integration system should be	
			constructed and maintained available for	
			gathering the conditions and data on energy and	
			material spent for the disposal and recycling of	
			the products (including the accessories and	
			maintenance parts), based on the preset	
			scenario. The system needs to measure or	
			estimate data with required precision when the	
			necessity arises, from reliable sources in view of perfection and representativeness.	
			or perfection and representativeness.	
			See 7-2-2 "Data management."	
<u> </u>	I	1		<u> </u>

No.	Title		Requirements	Explanatory notes
4	Data	4-1	4-1-1: Processing of integrated data	The intensity and
	processing		Data processing should be executed in	characterization factor are
		System for	accordance with the operation guidelines for	provided by the Ecoleaf
		processing	Ecoleaf environmental labeling, with the	secretariat in principle,
		integrated	information/data integration system: cutoff	while the organization is
		data	allocation is applied to the integrated	allowed to prepare original
			information/data, and the appropriate	ones.
			intensity and characterization factor are	The base and value of
			chosen and applied based on the scenario	intensity independently
			preset by the data system. The system for	developed by the
			preparing the following three sheets, which	concerned organization are
			compose the labeling, should be constructed	subject to the verification
			and maintained (Software may be a part of	(authorized by the
			the system): PEAD	judgment committee.)
			PEIDS	
			Product datasheet	
			Troddet datasheet	
			See 7-2-2 "Data management."	
5	Measuring		5-1-1: Management of measurement and	In the case the concerned
	management		measuring devices	measurement device is
			The quantitative data on the product	qualified for ISO9001 and
			environment should be clarified, with	subject to ISO9001.7.6
			developing requirements for the	"Control of surveillance
			measurement. The required measurement device should also be specified. It is	devices and measuring devices," the device is
			necessary to establish the process to ensure	considered to meet the
			that the measurement is executable with the	requirements for the
			method available for keeping coherence	measurement.
			with the measuring requirements.	
				Following is the assumed
				subjects of measurement in
				general:
				Product
				Mass of the product and its
				components
				Site
				<ul><li> Total electricity</li><li> Exhaust (SOX and</li></ul>
				NOX)
				• Drain (COD)
				Logistics
				• Fuel consumption
				Use
				<ul> <li>Consumed electricity</li> </ul>

No.	Title		Requirements	Explanatory notes
6	Internal	6-1	6-1-1: Internal verification	A set of the verification
	verification		Ecoleaf labeling for each product should be	documents includes:
		Verification	verified inside the concerned organization	• PEAD
		system for	whether or not it meets the requirements.	• PEIDS
		product	The internal system auditors (the auditor	<ul> <li>Product data sheet</li> </ul>
		environmental	and the deputy auditor) should execute the	• Parts assembly
		information/	internal verification by product with the	drawing
		data	following criteria:	• Flowcharts (on stage
				flows/ production
			The Ecoleaf environmental labeling	flows)
			conforms to the corresponding product	<ul> <li>Break-down</li> </ul>
			specification criteria (P.S.C.).	datasheets (1, 2 and 3)
			The Ecoleaf environmental labeling	• Relevant accounts
			conforms to the requirements	(used for inventory
			established by the concerned	analysis)
			organization.	• Relevant accounts
			The Ecoleaf environmental labeling	(used for impact
			conforms to the guidelines for operating	valuation)
			Ecoleaf environmental labeling.	
			To operate the internal verification, the	
			concerned organization should be careful to:  Ensure that the election of internal	
			auditors and the operation of internal verification are objective and fair.	
			Keep the internal system auditors away	
			from the labeling procedure.	
			Provide the responsibilities and	
			requirements of the auditors in the	
			written procedure with regard to	
			planning and operating the verification,	
			as well as recording the results and	
			maintaining the records (See 7-2-2	
			"Data management").	
			Ensure that the manager responsible for	
			the verified sphere takes steps to	
			remove the revealed disqualification	
			and its cause without delay.	
			The results of the verification should be	
			worked up into a set of the verification	
			documents, which are submitted to the	
			Ecoleaf secretariat.	

No.	Title		Requirements	Explanatory notes
7	Data (e.g.	7-1	7-1-1: Correction of released data	A concrete method should
	documents		The system to observe and to detect the	be developed to observe
	and records)	Correction	necessity of data correction concerning the	the possibility of change in
	management	system for	following cases should be constructed,	the conditions and base
		product	while setting the criteria for judging	applied to the calculation
		environmental	whether or not any correction is necessary.	of the initial data. The
		information/	The system that executes the correction	criteria for judging
		data	immediately when necessary should be also	whether or not a correction
			constructed.	is necessary should be also
			A) The data on a new product are changed	developed, to operate and
			from the released values based on the	maintain the correction
			estimate (in the planning/design stage)	system in compliance with
			yet on the market to the values acquired	it.
			from the actual measurement afterward.	
			B) Any change occurs in the data by some	
			reason, e.g. modification of the	
			production line.	
			C) Any error or fault is found in the	
			released data.	
			D) The declarant of the Ecoleaf	
			environmental labeling agrees with the	
			correction responding to the complaint	
			by a third party.	
			E) Any other case excepting the above	
			when the Ecoleaf secretariat approves	
			the correction.	

No.	Title		Requirements	Explanatory notes
7		7-2	7-2-1: Management of documents	
			The documents required for the data	
		Management	integration system should be managed.	
		of documents	Among the documents, especially, the	
		and records	records should be managed in compliance	
			with the requirements set in the	
			"Management of records" below.	
			The "written procedure" that regulates the	
			required management for the following	
			processes should be established:	
			A) The documents are authorized before	
			the release, from the viewpoint of either	
			appropriate or inappropriate.	
			B) The documents are reviewed, and when	
			necessary, updated and reauthorized.  C) The distinction between an original	
			document and its modification or	
			revision at present is ensured.	
			D) It is ensured that the appropriate version	
			of the concerned document is available	
			when and where it is necessary.	
			E) It is ensured that the document is easy	
			to be read and recognized.	
			F) The documents prepared outside the	
			organization are distinguished, and it is	
			ensured the distribution of the	
			documents is under control.	
			G) Attention should be paid to ensure that	
			abolished documents are not used by	
			mistake. In the case an abolished	
			document is used for some purpose, it	
			should be distinguished from the ones	
			in use.	
			7-2-2: Management of records	
			The records should be prepared and kept, to	
			show the evidence that the product fits the	
			requirements and the data integration	
			system is operated effectively. The records	
			need to be readable and distinguishable. The	
			"written procedure," which regulates the	
			required management for the discrimination,	
			storage, protection, reference, storage term	
			and abolition of the records, should be	
			established:	

No.	Title		Requirements	Explanatory notes
No. 8	Title	8-1 Ecoleaf labeling system	Requirements 8-1-1 The system of Ecoleaf labeling should be established as follows:     Criteria Valuation criteria for labeling should be specified.     System The top authority for labeling should be defined, while the division of the responsibilities and authorities for labeling are specified and controlled.     Method The steps and media necessary for labeling should be clarified.  See 7-2 "Management of documents and	Explanatory notes  A system that supports maintenance and control (especially when any change occurs in the system) of the whole proceeding of Ecoleaf environmental labeling, should be constructed.
			records" regarding the system maintenance and control	