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Total

November 2018

Independent assurance report on the award of the "Total Ecosolutions" label to the "Lumicene M3427" product

ERNST & YOUNG et Associés



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Further to your request, we have performed a review in order to obtain reasonable assurance that the "Lumicene M3427" product, a description of which can be found on the web site www.total.com¹ and in the external file dated June 19th, 2018, has obtained the "Total Ecosolutions" label in accordance with the "Total Ecosolutions Guidelines" in its version 5 dated June 22nd, 2016 (hereafter referred to as the "Guidelines"). The Guidelines, an abridged version of which can be downloaded from the web site www.total.com¹, have been established on the basis of the ISO 14020 and ISO 14021 standards and were the subject of a preliminary external review which gave rise to the issue of an independent report on their design, this report also being accessible on www.total.com¹.

We conducted our review in accordance with international standard ISAE 3000 (International Standard on Assurance Engagements) defined by IFAC (International Federation of Accountants). It is the responsibility of Total to regularly update the Guidelines, to ensure that they are made available to internal users and third parties, and to apply the Guidelines. It is our responsibility to express, on the basis of our review, a conclusion on the award of the "Total Ecosolutions" label to the "Lumicene M3427" product.

Nature and scope of our review

To express our opinion, we performed the following procedures:

- We have assessed the consistency, accuracy, understandability, neutrality, completeness and relevance of the Guidelines and of the constituents of the "Total Ecosolutions" label request file for products and services.
- We have conducted interviews with people in charge of preparing the label request file, and analyzed the available documentation (aiming at justifying the methods of evaluation of the product's overall environmental impact and of the comparative performance evaluation with the reference product). We have also reviewed the documents used during the validation process by the "Total Ecosolutions" Management Committee, in order to identify any risks of deviation in relation to the label award process defined in the Guidelines. However, the scope of our work did not include the verification of data used as sources for the calculation.

To conduct the aforementioned procedures, we called on members of our teams specialized in

¹ Exact address: [http:// www.ecosolutions.total.com](http://www.ecosolutions.total.com)

environment and sustainable development.

Information or explanations

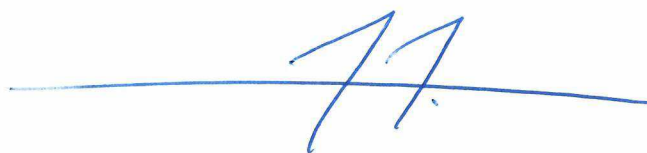
- The Guidelines aim to define the rules for the award of the "Total Ecosolutions" label, the organization and responsibilities, the methods for assessing the level of environmental performance and verifying the compliance with the Guidelines, the internal and external communication procedures as well as the rules for document management, in accordance with the requirements of ISO 14020 and ISO 14021 standards.
- The "Lumicene M3427" product is a polyethylene obtained by polymerization of ethylene with a metallocene catalyst, used in the manufacturing of artificial grass carpets for sports purposes. It allows to lengthen the lifespan compared to the reference product.
- The assessment of the environmental and health performance of the "Lumicene M3427" product was conducted by comparing, for an equivalent service provided, an artificial grass carpet containing the product with an artificial carpet containing a conventional low density polyethylene.
- The comparative assessment of the global environmental impact of the "Lumicene M3427" product is performed through the realization of Lisport tests (following the EN 15306 standard), which assess the lifespan of artificial grass carpets subjected to an intensive sport use.
- The functional unit considered is "use 1 m² of artificial grass carpet during a year, subjected to a standard use (1500 hours of use per year)".
- The benefit considered significant and validated by the "Total EcoSolutions" Management Committee is a reduction, calculated over the whole lifecycle of the product, of energy consumption and GHG emissions of 33%.

Conclusion

In our opinion, the "Lumicene M3427" product has been awarded the "Total Ecosolutions" label, in all its significant aspects, in accordance with the Guidelines.

Paris-La Défense, November 28th, 2018

ERNST & YOUNG et Associés
Sustainability Services



Christophe Schmeitzky