

Refining & Chemicals

Total Research & Technology Feluy
Regulatory Affairs
Tel. : +32 (0)64 51 40 67
rc.fer-regaffairs@total.com

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CERTIFICATE N° 38764

Feluy, December 11, 2019

POLYSTYRENE CRYSTAL 1160 grade as produced in Europe**STATEMENT OF COMPLIANCE FOR FOOD CONTACT IN MERCOSUR**

We confirm that any monomers and additives used in the manufacturing of **POLYSTYRENE CRYSTAL 1160** sold and supplied by Total Refining & Chemicals, are respectively listed in the **Mercosur/GMC/Res. N° 02/12 as Reglamento técnico MERCOSUR sobre lista positiva de monómeros, otras sustancias de partida y polímeros autorizados para la elaboración de envases y equipamientos plásticos en contacto con alimentos and in Mercosur/GMC/Res. N° 39/19 as Reglamento técnico MERCOSUR sobre lista positiva de aditivos para la elaboración de materiales plásticos y revestimientos poliméricos destinados a entrar en contacto con alimentos (derogación de las Res. GMC N° 32/07)**. This Product contains one or more intentionally added substances with a specific migration limit and/or restrictions defined in Mercosur/GMC/Res. N° 39/19 as Reglamento técnico MERCOSUR sobre lista positiva de aditivos para la elaboración de materiales plásticos y revestimientos poliméricos destinados a entrar en contacto con alimentos (derogación de las Res. GMC N° 32/07).

- Overall Migration Limit:

According to MERCOSUR/GMC/RES N° 56/92, the overall migration limit, for which a maximum value of 8 mg/dm² or 50 mg/kg is set, has to be controlled on the finished articles intended to come into contact with foodstuffs; consequently it is the responsibility of the end user of the above-mentioned Product.

We inform you that some overall migration tests according EN 1186-1, EN 1186-2 and EN1186-3 were carried out on the Product (or a specimen representative of this material) (100%) – single use conditions - contact period: 10 days at 40°C in simulant B, C and D' (thickness 1 mm) – overall migration: < 8 mg/dm²

- Specific Migration Limit(s) and/or other restrictions:1. Restriction for Monomer ^{a)}: none2. Restriction for Additive(s) ^{b)}:

- Restriction for zinc :Specific Migration Limit (SML) : 5 mg/kg (expressed as Zn)

3. Restriction for solvents:

- Restriction for ethylbenzene (CAS 100-41-4); Specific Migration Limit (SML) :0.6 mg/kg
- Restriction for toluene (CAS 108-88-3); Specific Migration Limit (SML) : 1.2 mg/kg
- Restriction for xylene (CAS 1330-20-7); Specific Migration Limit (SML) : 1.2 mg/kg

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For specific conditions of use, it pertains to end-users to check by appropriate specific migration tests on the final material or article the suitability for contact with different food-types and various end-use conditions. However these are beyond the control of TOTAL RESEARCH AND TECHNOLOGY FELUY and are a part of the responsibility of the user of the above-mentioned Product.

NOTE:

- a) Monomer as defined in the Mercosur/GMC/Res. N°02/12.
- b) Additive as defined in the Mercosur/GMC/Res. N°39/19.

Mercosur/GMC/Res. N° 03/92:

We hereby confirm that the above-mentioned Product, when used under normal or foreseeable conditions of use, is expected to meet the relevant requirements laid down in Mercosur/GMC/Res N° 03/92 as applicable to intermediate materials.

GENERAL USE CONDITIONS (FOOD CONTACT):

It pertains to downstream operators of materials intended to come into contact with food, to ensure that the final materials or articles do not bring about an unacceptable change in the composition of the food, or bring about deterioration in the organoleptic characteristics which render it unfit.

It pertains to downstream operators to check by appropriate migration tests on the final material or article the suitability for contact with different food-types and various end-use conditions. For high temperature applications tests shall be carried out under the worst foreseeable conditions of use in which physical or other changes do not take place. The maximum testing temperature is governed by the phase transition temperature of the polymer.

DISCLAIMER:

Our certificate is only valid for as far as above mentioned Product was bought from Total or its distributor and does not cover:

- Any modification of the above-mentioned Product by any addition of any other product or ingredient to it;
- Any prejudicial modification of the above-mentioned Product resulting from a processing of it;
- An inadequate use and/or storage of the above-mentioned Product and/or of the finished articles.



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Unless specifically indicated in a regulatory certificate of compliance, the products mentioned herein are not suitable for applications in the pharmaceutical or medical sector. Under no circumstances are any products sold by Total Refining & Chemicals suitable for humans or animals in the following applications: (i) Implantable devices intended for human or animal body (ii) Devices intended to be used in contact with internal body fluids (iii) Devices intended to be used in contact with internal body tissues.

Information contained in this publication is true and accurate at the time of publication and to the best of our knowledge. The nominal values stated herein are obtained using laboratory test specimens. Before using one of the products mentioned herein, customers and other users should take all care in determining the suitability of such product for the intended use. The Companies within Total Refining & Chemicals do not accept any liability whatsoever arising from the use of this information or the use, application or processing of any product described herein. No information contained in this publication can be considered as a suggestion to infringe patents. The Companies disclaim any liability that may be claimed for infringement or alleged infringement of patents.

The present certificate is valid for a period of eighteen months starting from the date first above written and replaces any earlier certificate relating on this subject which should be considered as null and void. Upon the expiration of this certificate, we can issue a new one at your request. In case of change during this period a new certificate will be issued automatically; kindly forward it to any recipient of the present certificate.

TOTAL RESEARCH & TECHNOLOGY FELUY

B. KLUYSKENS
Regulatory Affairs

F. RADERMACHER
Regulatory Affairs, Manager

Issued by an electronic system