



FICHA TÉCNICA DE PRODUCTO

Producto:	Bolígrafo metal detectable con clip ECO AZUL
Referencia:	Eco 2100C
Materia prima:	Polipropileno apto para contacto con alimentos (se adjunta documento)
Colorante:	Aprobado para contacto con alimentos
Tinta:	Atóxica en recambio metálico de un solo uso
Aditivo detectable:	Compuesto en base de filamentos de acero inoxidable aprobado para su uso en industria alimentaria (se adjunta documento)
Envase:	Bolsa de polietileno
Cantidad embalaje:	50 uds.

Imagen de producto



ExxonMobil Chemical Belgium

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Issue Date: 11 DEC 2008

Subject: Regulatory Declaration and/or Product Stewardship Information Statement(s) - Request

Dear Sir/Madam:

In response to your request, please find enclosed the regulatory declaration and/or product stewardship information statement(s) for the following ExxonMobil Chemical product(s):

EXXONMOBIL PP7064L1

These statements are provided by or on behalf of the above referenced ExxonMobil selling affiliate.

If you have any questions or need additional information please contact your ExxonMobil sales representative.

Enclosure(s):

EXXONMOBIL PP7064L1 - EUROPEAN FOOD LAW

Reference Number: 0011933

STATEMENT

Issue Date: 11 DEC 2008

At request of: PLASTRIBUTION LTD .

Product Name(s): EXXONMOBIL PP7064L1

Material Code(s): 5074181

With regard to the compliance status of the ExxonMobil Chemical product referenced above with the regulation(s) identified below the following can be declared:

EC LEGISLATION

- * The composition of the base polymeric component(s) in the above polymer grade complies with the positive lists for allowed monomers in Annex II of EC Directive 2002/72/EC - as amended up to EC Directive 2008/39/EC (relating to plastics materials and articles intended to come in contact with foodstuffs).
- * The additives that may be present in the above polymer grade comply with the incomplete list of additives in Annex III of EC Directive 2002/72/EC- as amended up to EC Directive 2008/39/EC (relating to plastics materials and articles intended to come in contact with foodstuffs).
- * The above polymer grade complies with the relevant requirements of Regulation (EC) No 1935/2004 in as far as:
 - the grade is produced using Good Manufacturing Practice as required in article 3.1 of Regulation (EC) No 1935/2004 and meets the guidelines for Good Manufacturing Practice as specified in Regulation (EC) No 2023/2006 (on good manufacturing practice for materials and articles intended to come in contact with food).
 - the production of the above grade ensures traceability as required in article 17.1 of Regulation (EC) No 1935/2004

EC MEMBER STATES LEGISLATIONS

- The composition of the base polymeric components in this polymer grade complies with the positive lists of allowed monomers in the legislations referenced below.
- The additives and/or polymerisation production aids (if applicable in the specific legislation) are permitted because they already figure on the EC "incomplete lists of allowed additives" and /or they already have been approved for food contact use in the specific countries.

AUSTRIA:

- Kunststoffverordnung from 14/10/2003 - BGBl Nr 476/2003 - as amended up to Aenderung der kunststoffverordnung 2003, BGBl Nr 452/2006.

BELGIUM:

- Royal decree of 11 May 1992, published in the Moniteur Belge / Belgisch Staatsblad of 24 July 1992 - as amended by the Royal decree of 3 July 2005 which is partly repealed by the Royal decree of 5 July 2006, Belgisch Staatsblad / Moniteur Belge of 7 September 2006.

DENMARK:

- Bekendtgørelse nr 1102 af 9/11/2006 om materialer og genstands i kontakt med fodevarer.

FINLAND:

- Decree on Materials and Articles coming in contact with Foodstuffs - KTM 953/2002 of 12/11/2002 - as amended up to KTM 181/2005 of 10/03/2005.

FRANCE:

- Arrêté du 2 janvier 2003 relatif aux Matériaux et Objets en Matière Plastique mis ou destinés à être mis au Contact des Denrées, Produits et Boissons Alimentaires, as amended up to Arrêté du 19 octobre 2006.

GERMANY:

- BfR Empfehlung VII "Polypropylen" from the Bundesinstitut fuer Risikobewertung "BfR".

- Bedarfsgegenstaendeverordnung vom 10 April 1992, BGBl I.S. 866 Neugefasst durch die Bedarfsgegenstaendeverordnung vom 23.December 1997 (BGBl 1998 I S 5.) - as amended up to Zwelfte Verordnung zur Aenderung der Bedarfsgegenstaendeverordnung vom 30.November.2006 (BGBl I.S.2730).

IRELAND:

- Irish Statutory Instrument S.I No 139 of 2006, European communities (Plastics and other Materials)(contact with Food Regulations 2006 and S.I. No 566 of 2006, European communities(Plastics and other Materials)(contact with Food)(Amendment) Regulations

ITALY:

- Decreto Ministeriale 21 Marzo 1973 - as amended up to Decreto 4 Maggio 2006, n.227 recepimento delle Direttive 2004/1/CE, 2004/13/CE e 2004/19/CE.
Gazette Ufficiale n. 159 del 11 Luglio 2006.

NETHERLANDS:

- Regeling van 20 November 1979, nr 147708, Stcrt. 1980,18, tot uitvoering van artikelen 2 en 5 van het Verpakkingen-en Gebruiksartikelenbesluit (Warenwet) (Stb.1979,558) (Regeling Verpakkingen en Gebruiksartikelen) - as amended and/or completed up to Regeling van 15/06/2006 Stcrtnr 114

NORWAY:

- Forskrift om Materialer og Gjenstander i kontakt med Naeringsmidler

FOR-1993-12-21 nr 1381 - as amended.

PORTUGAL:

- Decreto -Lei No 197/2007 of 15/05/2007

SPAIN:

- Spanish Real Decreto 118/2003 of 31/01/03 as amended up to the ORDEN SCO/3508/2006 and Resolution de la Subsecretaria para la Sanidad o November 4, 1982 - as amended.

SWEDEN:

- LIVSF 2003:2 from 06/02/2003 as amended up to LIVSF 2006:20 from 5/10/2006.

UNITED KINGDOM:

- S.I. 2006 No 1401 The Plastics Materials and Articles in contact with Food (England) Regulations 2006 and S.I. No 2687, The Plastics Materials and Articles in Contact with Food (England) (No 2) Regulations 2006
- SSI 2006 No 314, The Plastics Materials and Articles in Contact with Food (Scotland) Regulations 2006 and SSI 2006 No 517, The plastics Materials and Articles in Contact with food (Scotland) (No 2) Regulations 2006
- SR 2006 No 251, The Plastic Materials and Articles in contact with Food Regulations (Northern Ireland) 2006 and SR 2006 No 420 ,The Plastics Materials and Articles in Contact with Food (No 2) Regulations (Northern Ireland) 2006
- S.I. 2006 No 2982,The Plastics materials and Articles in contact with Food (Wales) Regulations 2006

Monomer restrictions:

- None of the monomers present in this polymer is subject to a Specific Migration Limit (SML).

Presence of additives with SML

- The above polymer grade does contain a/some additive(s) that is/are subject to a Specific Migration Limit (SML).

Presence of dual use additives

- The above polymer grade does contain a/some additive(s) that is/are subject to a restriction in food as referred to in Article 1 point 7 (a) 1.(b) of EC Directive 2004/19/EC.

Note

For information purpose only

This note contains information relative to the presence of additives subject to a restriction according to Directive 2002/72/EC -as amended-, as described in this Statement.

Additive : N,N-Bis(2-hydroxyethyl)alkyl (C8-C18) amine
EC Ref. No : 39090
Max. conc.* : 70 ppm
Restriction : SML = 1.2 mg/kg food

Additive : Zinc Oxide
EC Ref. No : 96240
Max. conc.* : 250 ppm
Restriction : SML = 25 mg/kg food - Expressed as Zinc

Additive : Sodium Benzoate
EC Ref. No : Salt of 36700
Max. conc.* : 2400 ppm
Restriction : Dual use additive

Additive : Talc
EC Ref No : 92080
Max. conc.* : 1.8 %
Restriction : Dual use additive

Additive : Glycerol Monostearate
EC Ref No : Salt of 56585
Max. conc.* : 1.1 %
Restriction : Dual use additive

* This information is provided for general guidance purposes only and ExxonMobil Chemical provides no guarantees or warranties in respect of this information and has no responsibility or liability for any use by any third party of this information.

Note on Additives SML's (Specific Migration Limits)

The above polymer grade does contain some additive(s) that is/are listed in Annex III Section B of the EC Directive 2002/72/EC, as amended up to EC Directive 2007/19/EC and that is/are subject to a Specific Migration Limit (SML).

However, be informed, that for SML-subjected additives listed in Annex III Section B, the verification of compliance with the specific migration limits in simulant D or in test media of substitute tests as laid down in Article 3(1), second subparagraph of Directive 82/711/EEC -as amended- and Article 1 of Directive 85/572/EEC shall apply from 1 April 2008.

Note on Overall Migration Limit ("OML")

Finished plastics food-contact materials or articles, made from or containing this product as a component, need to comply with Overall Migration Limit ("OML") requirements - as specified in EC Directive 2002/72/EC - when tested on the food-contact surface with the appropriate food simulants and time/temperature test conditions. This is part of the responsibility of the user of this polymer product.

Indeed -and in addition to the above compositional compliance status certification-, appropriate overall migration ("OM") tests on the final material or article determine the regulatory suitability for

contact with different food-types (aqueous, fat/oil, alcoholic, ...) and various end-use conditions (material or article thickness, pure or in blends, volume, contact time of packaging, temperature of use, etc....), which are beyond control of EXXONMOBIL CHEMICAL.

General note

The manufacturer of food-contact materials and articles - made from or containing this polymer grade - must ascertain that these finished materials or articles meet the general regulatory requirement that they do not bring about an unacceptable change in the composition of the foodstuffs or a deterioration in the organoleptic characteristics thereof.

In addition, the finished food-contact material or article must be technically suitable for the intended use.

VALIDITY DATE: This document is valid until the next relevant legislative and/or regulatory change with a maximum of one year as of the date of issue of the statement.

Reference Number: 0011933

EMI SHIELDING THERMOPLASTIC STAINLESS STEEL FIBRE MASTERBATCH

TBA Electro conductive Products special Polymer bound Metal Fibre. The material is used as a masterbatch and can be injection moulded to produce plastic articles with inherent EMI Shielding and electrically conducting characteristics.

The masterbatch is added at very low levels ensuring minimal effect on colour, mouldability and other base polymer properties.

The use of this system allows shielded articles to be produced in one process without additional equipment, labour or secondary processing, and provides a cost effective solution to EMI Shielding problems.

APPLICATIONS

The material can be used in any plastic moulding application in which electrical conductivity or EMI Shielding is required.

- for example - Electronic Equipment Enclosures
- Computer Housing
 - Telecommunications
 - Printers
 - Tote-Boxes
 - Applications requiring electrostatic protection

MATERIAL SPECIFICATION

- A Masterbatch Pellet.
- Stainless Steel Fibre AISI304, Bonded with polymer specific binder
- Pellet Form, 5mm Chopped Length.

TYPE	BINDER	USES
ECP 12E	Emulsion Based ethylene acrylic acid zinc ionomer binder, 25% by weight	Styrenic Thermoplastics, PS, SAN, ABS also PPO and PPE Alloys. Polypropylene/Polyolefines
ECP 16E	Nylon 6/12, 25% by weight	Nylon 6, 6/6, 6/10, 6/12, PBT, PET.
ECP 20E	Polycarbonate, 25% by weight	Polycarbonate, Polysulphone PES, PET, PEI, PBT.

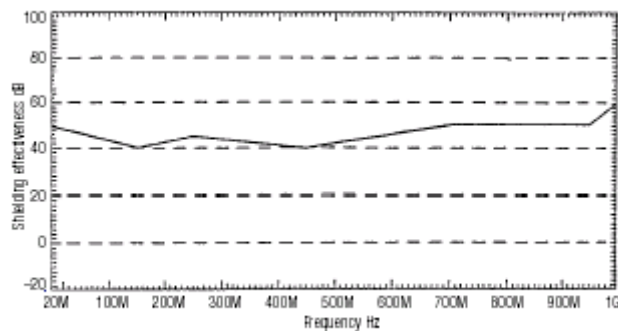
TYPICAL PROPERTIES AND MOULDING HINTS

SHIELDING PLASTICS

For example:- 1.0% volume addition of fibre equivalent to 10% by weight addition of masterbatch to flame retarded ABS (Terluran 947MWU).

Shielding Data

Shielding effectiveness measured using shielded room test to MIL STD 285 3mm thick plaque.



Physical Properties (1% vol ECP12E in ABS)

Tensile Strength	(MPa)	-	32.3
Tensile Modulus	(GPa)	-	2.36
Flexural Strength	(MPa)	-	58.0
Flexural Modulus	(GPa)	-	2.19
Elongation	(%)	-	3.5
Impact Strength:			2
Charpy Un-N	(KJ/m)	-	15.9
			2
Charpy N	(KJ/m)	-	7.1
Izod	(J/m)	-	55.1
			3
Specific Gravity	(g/cm)	-	1.35
Deflection Temp			
Under Load	(C)	-	65.0 at 1.81 MPa
		-	78.0 at 0.45 MPa

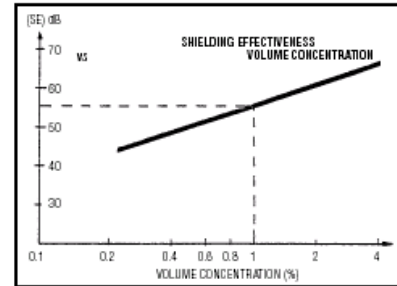
Mouldability of Steel Fibre Filled Conductive Plastics

Steel fibre added to a plastic compound will create an electrically conductive composite at extremely low concentrations. Typical use levels range from 0.5 to 1.5 volume % (approx. 3 to 10 weight %) compared to 5 to 30 volume % needed of other conductive additives for similar electrical performance.

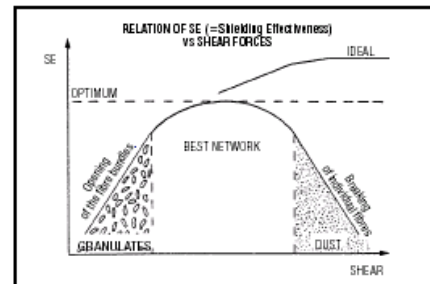
These electrically conductive composites are being utilised for electrostatic discharge (ESD) protection and electromagnetic interference (EMI) shielding. An electrically conductive thermoplastic compound may be injection-moulded with normal processing equipment, and parameters, into a cost-effective method of providing electrical protection. The typical loadings and their performance are listed opposite.

In general, it can be recommended that:

- The back pressure should be used as the main control of applied shear to the compound during the processing. Essentially, this means that enough back pressure is needed to create good dispersion of the fibres, but extreme levels of back pressure are to be avoided to maintain fibre integrity.
- Slightly higher processing temperatures could be used to enhance fibre dispersion.
- Injection screw RPM should not be extreme, or fibres may be worked into balls.
- Injection speed and holding pressure should be slower and lower than normal, so as to prevent migration of the fibres away from the gate area during the cooling cycle.
- Shot size should be normally between 35% to 60% of capacity.
- Gate size is not of extreme importance and it is recommended not to use very small gates. If dispersion is poor, fibre bundles could clog pin gates.
- Extremely long flow lengths are to be avoided, since the longer the flow, the more turbulence, or shear, is imparted to the compound causing a loss of fibre integrity.



VOLUME RESISTIVITY		
Vol %	(Ohm. cm)	Application
0.5	<103	ESD protection
1.0	1-10	EMI Shielding 30-50 dB
1.5	0.1-1	EMI Shielding 50-60 db
>	<0.1	EMI Shielding >60 db



information in this publication and otherwise supplied to users is based upon our general experiences and is given in good faith, but because of the particulars which our outside our knowledge and control and affect the use of the product, no warranty is given or is implied with respect to such information. freedom from patent rights must not be assumed.



Delta Plast Quality & Environmental Management System
Statement on compliance to food contact regulations MRD10/E2

Food regulations v 1,0

Date 2006-03-21
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Recipe no PRI34869

Art no	Regulation / chapter	Limits in final product	Note	Reg date	Reg sign
Ingredience #1					
	Bfr IX	No	Farbstoffe zum Einfärben von Kunst... (June 1994)	2003-08-20	LnM
Ingredience #2					
	FDA 21 CFR §178.3130	5.00%	Antistatic and/or antifogging agents in food pack.	2005-09-06	LnM
	EG-directive EN 71/3	No	Safety of Toys (Dec 1994)	2005-09-06	LnM
	French Positive List FPL Br.1227	2.00%	Matériaux au contact... Edition (July 2002)	2005-09-06	LnM
	Bfr IX	No	Colorants for plastics...point 1 and 2	2005-09-06	LnM
Ingredience #3					
	EG-directive 2002/72/EC	No	Plastic mat. and articles ... foodstuffs contact	2003-10-08	LnM
	FDA 21 CFR §177.1520	No	Indirect food additives: Olefin polymers	2004-12-03	LnM
	French Positive List FPL Br.1227	No		2004-12-03	LnM
	Bfr III	No	In polyethylene	2004-12-03	LnM
Ingredience #4					
	EG-directive 2002/72/EC	No	Plastic mat. and articles ... foodstuffs contact	2005-02-18	LnM
	EG-directive 2004/1/EC	No	1st Amendment of EEC Directive 2002/72/EC	2005-02-18	LnM
	EG-directive 2004/19/EC	No	2nd Amendment of EEC Directive 2002/72/EC	2005-02-18	LnM
	FDA 21 CFR §177.1520	No	Indirect food additives: Olefin polymers	2005-02-18	LnM
	Decreto Ministerale No 104	No	1973-03-21	2005-09-16	LnM
	Bfr VII	No	In polypropylene	2005-02-18	LnM

We confirm that this product fulfills above mentioned regulations when normal let down ration is used (15%).

SE: De ingående produkterna i denna masterbatch uppfyller ovanstående krav för kontakt med livsmedel. Vi vill poängtera att vårt ansvar som masterbatchproducent inte omfattar slutprodukten utan det är tillverkaren av denna som har det slutliga ansvaret för att slutprodukten är lämplig för kontakt med livsmedel.

GB: The ingredients of the above product are suitable for colouring of plastics to be applied in contact with food. We wish to point out, however, that our responsibility as masterbatch producer cannot be extended to include the application to which our product is put by the manufacturer. In principle, therefore, the manufacturer applying our masterbatch will be responsible for testing the finished product.

DE: Die Zutaten dieses Produktes erfüllen die oben genannten Bedingungen für den Kontakt mit Lebensmitteln. Wir möchten trotzdem darauf hinweisen, dass unsere Verantwortung als Masterbatch Produzent das Endprodukt nicht mit einschließt. Es liegt deshalb im Verantwortungsbereich von dessen Produzenten, dass das Endprodukt für den Kontakt mit Lebensmitteln geeignet ist.