

**Rosehill Polymers Ltd  
Rose Hills Mills  
Beech Road  
Sowerby Bridge  
United Kindgom HX6 2JT**

July 17<sup>th</sup>, 2006

Our ref. : R06-0614UK/DB/JO/LC/PB

## TESTS REPORT ON RUBBER

Dear Sir,

Please find enclosed the report of tests carried out on toxicology research on rubber  
« **TPV GREEN GRANULES 0.5-2.5 mm** » for infill of synthetic turf.

We hope you receive that report as soon as possible, and look forward to hearing from  
you.



Dominique Boisnard  
Executive Manager

LABORATORY RECOGNIZED AS TECHNICAL CONTROL BODY

BY THE MINISTRY OF ENVIRONMENTAL PLANNING, EQUIPEMENT AND TRANSPORT.

**TESTS REPORT**  
**RESEARCH IN TOXICOLOGY**  
**« TPV GREEN GRANULES 0.5-2.5 mm »**  
**RUBBER**  
**Report n° 06-0614UK**

**Scope of application :**

**According standard XP P90 112 : Playground areas on synthetic turf  
(november 2004)**

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unless it is reproduced in its entirety. The results are valid only for the above product.

## I - APPLICANT :

- Company : Rosehill Polymers Ltd
- Order reception : June 13th, 2006
- Samples reception : June 19th, 2006

## II – IDENTIFICATION :

Rubber for synthetic turf infill.

### Description given by the manufacturer :

- commercial name : TPV GREEN GRANULES 0.5-2.5 mm
- colour : green
- type : TPV

## III – RESULTS :

Parameters	Standards	Results	XP 90 112 Requirement
Lead Pb	NF EN ISO 11 885	<0,010 mg/l	≤ 0,040 mg/l
Cadmium Cd	NF EN ISO 11 885	<0,002 mg/l	≤ 0,005 mg/l
Chromium total Cr	NF EN ISO 11 885	<0,010 mg/l	≤ 0,050 mg/l
Chrome hexavalent Cr	NF T90-043	<0,005 mg/l	≤ 0,008 mg/l
Mercury Hg	NF T90 113-2	<0,0005 mg/l	≤ 0,0010 mg/l
Tin Sn	NF EN ISO 11 885	<0,050 mg/l	≤ 0,050 mg/l
Dissolved Organic Carbon DOC	NF EN 1484	12,34 mg/l	≤ 40 mg/l
Zinc Zn(1) with CO <sub>2</sub>	NF EN ISO 11 885	<0,01 mg/l	≤ 20 mg/l
Zinc Zn(2) without CO <sub>2</sub>	NF EN ISO 11 885	0,03 mg/l	≤ 0,50 mg/l
EOX	NF EN 1485	10 mg/kg	≤ 100 mg/kg

For Pb, Cd, Cr, CrVI, Hg, Sn, Zn(1) :

- Leaching with non-ionic water and with CO<sub>2</sub> bubbling
- Second eluate (24H à 48H) is analysed

For Zn(2) et COD :

- Leaching with non-ionic water
- Second eluate (24H à 48H) is analysed

For EOX :

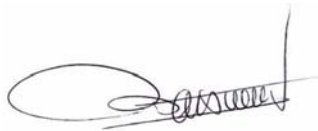
- On dry granules

#### **IV – CONCLUSION :**

The results and analysis of toxicology on this type of rubber are in accordance with the requirements of standard XP P90112.

Le Mans, July 17th, 2006

Dominique Boisnard



Executive Manager

Julien Ogier



Synthetic Surfaces Department