

ANALYSIS REPORT ON NON TOXICITY

(POLY PROPYLENE CO-PLYMER) AND (POLY ETHYLENE CROSS LINKING) PIPES WITH DZR BRASS ELBOW AND ADAPTOR FITTINGS

Lab References:

Report No.

: R1/2b09-236

Report Date : 02/02/2009

Request No. : Q1/2b09-236

Sample No. : \$1/2b09-236

Client References:

Product.

: Vialli PPR, Vialli PEX and DZR fittings

Project Name

: POTABILITY TEST (Safety using for Drinking Water)

Client

: MINCOM TRADING

Consultant

: MAZAYA CONSULTING ENGINEERS

Supplier

: VIALLI Group - Germany

I. Appearance of Water

5 cm sample was cut from the two plastic samples namely Vialli PPR, Vialli PEX Pipes and DZR fittings. The metal parts were removed and became separate parts. The specimen was submerged altogether to the chlorine-free test water maintained at temperature 50 °C for 24 hrs.

After 24 hrs water portion was removed and tested for colour and turbidity using spectrophotometric method.

Extract Result:

Turbidity: < 21 FAU

Colour : < 15 mg/L Pt-Co

Remarks: Values obtained for turbidity and colour are both below the detection limit and meets the non-toxicity requirements for this test.

GEOSCIENCE TESTING LABORATORY

Issue No.: 01

Issue Dt.: 04.01.2004

Rev. No. : 0

Rev. Dt. ;

For GEOSCIENCE TESTING LABORATORY

Main Office:- Dubai

P.O. Box: 61670 - Dubai Tel: +971-4-3477706 / 3477906

Fax: +971-4-3477704 / 3477691

Website: www.geoscience.ae E-mail: info@gtl.ae

Sharjah

P.O. Box: 64800 - Sharjah

Tel: +971-6-5312160

Fax: +971-6-5312190

Aby Dhabi

P.Q. Box: 38442 - Abu Dhabi

Tel: +971-2-5548212 Fax: +971-2-5548210



II.Extraction of Metals

5 cm sample was cut from the two plastic samples, Vialli PPR, Vialli PEX Pipes and DZR fittings. The metal parts were removed and became separate parts. The specimen was submerged altogether to the chlorine-free test water maintained at temperature 50 °C for 24 hrs.

After 24 hrs water portion was removed and tested for presence of metals using Atomic Absorption Spectrophotometry and ICP-OES. The water extract was acidified prior to testing using concentrated HNO₃ (5ml HNO₃ / 1000ml extract)

Table 1. Metal Analysis results

PARAMETER	DETECTION LIMIT	RESULT (mg/L) FINAL EXTRACT
CADMIUM *	0.02	< 0.02
CHROMIUM*	0.20	< 0.20
IRON	0.10	< 0.10
LEAD *	0.15	< 0.15
MANGANESE	0.03	< 0.03
NICKEL *	0.18	< 0.18

ND = Not Detected

Remarks: Tested items, Vialli PPR, Vialli PEX pipes and DZR fittings meet and exceed the non-toxicity requirements test for drinking water purpose.

Form No.: MC-18

Page 2 of 3

Issue No.: 01

Issue Dt.: 04.01.2004

Rev. No.: 0

Rev. Dt. : -

مختبر علوم التربة لفحص المواد GEOSCIENCE TESTING LABORATORY

Villapar Liwely

For GEOSCIENCE TESTING LABORATORY



Main Office:- Dubai

P.O. Box: 61670 - Dubai

Tel: +971-4-3477706 / 3477906 Fax: +971-4-3477704 / 3477691

Sharjah

P.O. Box: 64800 - Sharjah

Tel: +971-6-5312160

Fax: +971-6-5312190 Website: www.geoscience.ae E-mail: info@gtl.ae

Abu Dhabi

P.O. Box: 38442 - Abu Dhabi

Tel: +971-2-5548212 Fax: +971-2-5548210



TESTING DATE

: 10/02/2009

SAMPLING REPORT NO.

: CHSC09-0073

SAMPLING METHOD

: GRAB

SAMPLE PREPARATION

: BS: 6920 -2.1 2000

TEST METHOD

: APPEARANCE OF WATER : BS 6920-2.2.3 2000

: EXTRACTION OF METALS: BS 6920-2.2.6 2000

TEST METHOD VARIATION

: NONE

TESTED BY

: AFH / RTG / CAM / ART

REMARKS

: NONE

* Results relates only to the items tested

* Reports shall not be reproduced (except in full) without written approval of the laboratory.

Form No. : MC-18

Page 3 of 3

Issue No. : 01

Issue Dt.: 04.01.2004

Rev. No. : 0

Rev. Dt. : -

مختبر علوم التربة لفحص المواد معتبر علوم التربة لفحص المواد همانية GEOSCIENCE TESTING LABORATORY

Liwelyn Villapando Chemica Dept. Manager

For GEOSCIENCE/TESTING LABORATORY



Main Office:- Dubai

P.O. Box : 61670 - Dubai Tel : +971-4-3477706 / 3477906

Fax: +971-4-3477704 / 3477691

Sharjah

P.O. Box : 64800 - Sharjah

Tel: +971-6-5312160 Fax: +971-6-5312190

Website: www.geoscience.ae E-mail: info@gtl.ae

Abu Dhabi

P.O. Box. 38442 - Abu Dhabi

Tel: +971-2-5548212 Fax: +971-2-5548210