

**REPORT ON NON TOXICITY ON POLY PROPYLENE CO-POLYMER AND POLY ETHYLENE
CROSS LINKING PIPES WITH DZR BRASS ELBOW AND ADAPTOR FITTINGS**

REPORT NO.	: RP/00097/14	REPORT DATE	: 17/02/2014
REQUEST NO.	: RQ/00081/14	SAMPLE NO.	: SA/00097/14
JOB ORDER NO.	: JO/00708/14		
PROJECT NAME	: INTERNAL QUALITY CHECK	PROJECT NO.	: NOT GIVEN
CLIENT NAME	: MINCOM TRADING L.L.C.	SENDER'S REF.	: VIALLI GROUP - GERMANY
CONSULTANT	: ENG. ADNAN SAFFARINI OFFICE ARCHITECTS & ENGG. CONSULTANTS		
CONTRACTOR	: SOLICO E.M. CONT. L.L.C.		
SAMPLE DESCRIPTION	: VIALLI PPR, VIALLI PEX AND DZR FITTINGS	SAMPLE SIZE	: 1 NO.
SOURCE	: NOT GIVEN	LOT NO.	: NOT GIVEN
LOCATION	: NOT GIVEN	LOT SIZE	: NOT GIVEN
SAMPLED BY	: CLIENT	SAMPLING DATE / TIME	: NOT GIVEN
SAMPLE BROUGHT IN BY	: CLIENT	RECEIVING DATE / TIME	: 15/02/2014 / 12:55 HRS
		SAMPLING REPORT NO.	: NOT GIVEN

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

Extract Result:

Turbidity : < 5 NTU

Colour : < 15 mg/L Pt-Co

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

Metal Analysis Results:

PARAMETER	DETECTION LIMIT	RESULT (mg/L) Final Extract
CADMIUM	0.02	ND
CHROMIUM	0.01	ND
IRON	0.06	ND
LEAD	0.01	ND
MANGANESE	0.01	ND
NICKEL	0.01	ND

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.

Test Method : In House Test Procedure

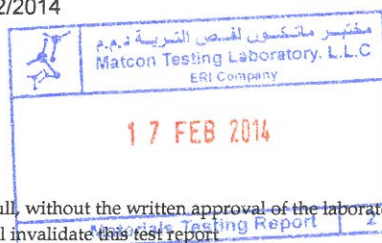
Test Method

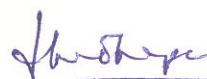
Variation : None

Remarks : Test was requested by Eng. Emad Moafi from Eng. Adnan Saffarini Office Architects and Engg. Consultants.

Testing Date : 15/02/2014 - 17/02/2014

Tested by : KNM




For MATCON TESTING LABORATORY
KISAN MOHAPE
 Senior Chemist

Results related only to the items tested.

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