

isoFlex PVC[®] Submittal





Company Profile

 $\textbf{iChemEG}_{\tiny \textcircled{B}}$ was established in 2019 in Cairo,Egypt.

Team business with values that include: experience , do the right thing and work hard. As the manufacturer, we verify that only the best products are shipped out to your project We constantly test and review our systems for continuous innovation to provide you with the best solutions Yeah, we're obsessed, but in a good way. **iChemEG** classified as a class A contractor and have built a strong reputation and growing business in Egypt we are able to undertake multidisciplinary projects of scale and complexity

Fast growth in business and revenue is a testimony to our proven capability to deliver quality

products and services with speed and cost effectiveness



Company Information

Registration Name :	iChemEG
Establishment Year :	Since 2019
Address :	22EI-Shaheed Mohamed Abd EI-Hadi Street, Nasr City, Cairo, Egypt
Tel :	+222909120
Office Mob :	+201010027900 / 01010042900
Email :	info@ichemeg.com

isoFlex PVC[®]



Description

The **isoFlex PVC**[®] a Supercast waterstops are extruded from a high grade PVC compound which has been formulated to give excellent flexibility and longevity characteristics. They are available as straight lengths and factory produced intersections or as a factory prefabricated segment of a network to minimize site jointing.

Key Features

Multi-rib selection, providing tortuous and impenetrable water checks Clips facilitate easy fixing. Material and cross-section allow extremely easy on site welding. iChem quality is in high strength polyvinyl chloride material.

• **isoFlex PVC**[®] is resistant to Seawater, Salt solution, Potable and Sewage water.

- · Range of profiles to suit every need.
- · Simple on-site jointing.
- · Adheres to concrete.
- · Versatile in use.
- · Economical.

Uses

The **isoFlex PVC**[®] range of PVC waterstops is designed to provide an integral sealing system for movement and construction joints in concrete cast in-situ. These joints typically occur in the following types of structure:

Water retaining

- Reservoirs, water towers and sewage tanks.
- · Dams, culverts, canals and spillways.
- Swimming pools.

Bundled areas surrounding liquid retaining tanks.
 Water excluding



Application Instructions

Welding: Waterstops are made from thermoplastic PVC and can therefore be welded. The ends are heated with welding equipment until the PVC gets plastic and then immediately pressed together.

isoFlex PVC[®] are allowing easy on site welding, including the prefabrication of cross, T, L and corner pieces.

A wide ranges of standardized junction pieces are available. All have a 30 cm free leg, allowing easy site welding to Waterbars. In case nonstandardized junction pieces are required, drawing must be provided, giving exact details of angles.

Packing

Available in Rolls at 15 & 20 & 30 meter

Shelf Life

Open shelf life as long as it is stored away from heat and fires sources. .

Health and safety

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

isoFlex PVC[®]



Centrally Profi	le				
Profile Ty	/pe	Width(cm)	Roll Length(m)	Thickness-mm (10%)	Max.Water head(m)
}+++++	-++++4	C	onstruction J	oint Profile	
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Light	V20-L V24-L V32-L	20 24 32	30 30 20	4 4 4	10 15 25
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isoFlex PVC®







تقرير فنى لعينة مطاط
الخاص بشركة (iChemEG)

01.1

CERT

تاريخ : 2023/7/19

العينة: قطاع من شريط مطاطئ لونه أسود من مادة (isoFlex PVC)

وزارة فبعد تعنى والتقولونية مفهد بعرت تبترون لنصري Egyptian Poiroleum Research Institute (EPRI) مركز حماية الأسطح المحتيه SpC

السادة شركة (iChemEG)

لقد تمت الاختبارات لقطاع من شريط مطاطى لونه أسود من مادة (isoFlex PVC)طبقا والمواصفات القياسية العالمية وقد سجلت االنتائج في االجدول التالي

Test type	Results	Reference value	Standard	Remake	
Tensile strength	14.58N/mm2	≥ 10 N/mm2	DIN 53455	Accept	
Tear strength	14.61 N/mm	≥ 12 N/mm	DIN 53507 A	Accept	
Shore A Hardness	95	90±5	DIN 53505	Accept	
Elongation at Break	312 %	> 300 %	DIN 53455	Accept	

الخلاصة : العينة اجتازت الاختبارات السابقة بتجاح طبقًا للمواصفات القياسية العالمية



(1) تلى أحمد الزمر حمينة تعمر 2014). (الرقم فريدين: 2)202(22242433) بالكانين: 202(22242433) بالكانين: 2)202(22242433) بالكانين: 2)2242742-22242712) Ahmed EL-Zemor St,Niser City, Cairo, Egypt. Tel : (+202)22242742-22242712) Fax(+202)22242433 P.o: 11727 www.eprisci.ez mobil 01009798403 ,tel (022) 26707821 E-mail: ashrfelsaied@yaboo.com





NATIONAL RESEARCH CENTRE TANRIR St. DOKKI, CAIRO, EGYPT Cantral Unit For Analysis And Scientifical Services (CUASS) Material Test Lat. المرکز القومی للبحوث العقر، القامة، بعمورة مصرامیریة ومنا التعاور والعماد مشید فرکزیة مس اختیار فرم



This report was given to you representing only the results for the testing sample of iso Flex PVC waterstops (33), Delivered from iChemEG construction chemistry, These results and conclusions were given to you without any responsibility on THE CERAMICS, POLYMERS AND SOLID MATTER DEP. of THE MATERIAL TEST LAB in THE NATIONAL RESEARCH CENTRE for pick up the samples to be tested.

Head of Director of The Board of Central Depertment for Scientifical Analysis and Tests

> SUPERVISOR 27 OF CERAMICS, POLYMER AND SOLID MATTER DEPARTMENT PROF.DR. MOSTAFA

داخلی ۱۸۰۰ میاشر ۲۳۳٬۰۷۱٬۵۰ مترع التحریر - الدقی - القاهرة (۲۳۳٬۰۷۵ مترع التحریر - الدقی - القاهرة التحریر - الدقی - القاهرة E-mail: nre1302a@yahoo.com





NATRONAL RESEARCH CENTRE TAHRIR St. DOKKI, CAIRO, EGYPT Central Unit For Analysis And Scientifical Services (CUASS) Material Test Lab. المرکز القومی للبدوث الاس الامن بیموریه مس البیبه رست فصفیل رانسات فصیه عرفزیه سیل نظیر ترم



Tear strength test according to ASTM D624

on a sample of iso Flex PVC waterstops 030

Delivered from iChemEG construction chemistry.

No.	Teer strength (Nimm)	Moan (Nimm)
1	16.45	
2	17.31	
3	18.28	17.44
1	17.65	
5	17.49	



مياشر. مذاكر ٢٣٣٨٣٨٠٣ شارع التحرير - الدقن - القاهرة

داخلی ۱۸۱۰ میاشر ۲۸۳۸ داخلی ۲۳۵ وفاکس E-mail: nrc1302a@yahoo.com TTTA-Yout - TTTANAY





NATIONAL RESEARCH CENTRE TAURIR St. DOKKI, CAIRO, EGYPT Central Unit For Analysis And Scientifical Services (CUNSS) Material Test Lab.

الهركز القومى للبحوث

العظي - الغالغية - بينغورية مصر البربيية وحدة التحاليل والخادمات الطبية للركزية معمل اختبار الواد



Test Report

Report No.	MO1 5449 04 2021
Client	iChemEG construction chemistry
Authority & date	Request Orders 20/4/2021
Items Tested	iso Flex FVC materstaps (33)
Results	The detailed test results are given on the following
	pages of this report (4 pages).
Report Typist	* Mis. Naglaa Mohamed-Sara Abdel Reheam
Test carried by	Noha Samir
	* Mis. Fatma El Zahraa Fikry
	* H.Eng. Ahmed Said
	* Chem. Amr El Shafey
	* Dr. Abou El Ftouh Abd El Hakem
Authorized by	Prof. Dr. Mostafa Zaki Mostafa
with the stand	The Supervisor of ceramics, Polymer and
6799 Hadd	Solid Matter Department.
Chan The Look	Management Representative and Quality
and the second second	Assurance Manager.
Issue date	27/4/2021
Condition of Test	The test speciemen was conditioned at 23 °C
& Issue	with a humidity of 60 % and the needed
	calibrations as well as balancing of the all
	used machines were always done .

مباشر ۲۳۳۲٬۱۱۵ - ۲۳۳۱٬۱۱۵ - ۲۳۳۱٬۱۱۵ مباشر ۲۳۳۵٬۷۵۲ شارع التحرير - الدقن - القاهرة ۲۳۱۰٬۷۵۱ - ۲۳۲۰٬۷۵۱ - ۲۳۲۰٬۷۵۱ - ۲۳۲۰٬۷۵۱ وفاکس ۲۳۳۵٬۷۵۲ E-mail: nre1302a@yahoo.com





NATIONAL RESEARCH CENTRE TAHRIR St. DOKKI, CAIRO, EGYPT Central Unit For Analysis And Scientifical Services (CUASS) Material Test Lab. المرکز القومی للیدوث الض القامة، جمورة مم البربية وحدا التحايل والاسات البلية تركزية مسل التبار قواء



TO/ iChemEG construction chemistry

Dear Sir.,

With correspondence to your request dated 20/4/2021 concerning the testing sample of iso Flex PVC waterstops O30, We would like to inform you that the all following needed tests were carried out which namely:

I- Tear strength test according to ASTM D624

We would like to inform you that the needed test was curried out taking into consideration the following conditions:

1- In all mechanical properties GALDABINT – QUASAR 600 – Made In Italy Universal Tenting Machine was used. This type has a self calibration, zero adjusting and automatic balance, which are done daily before testing or during testing this testing instrument is accomposited by a highly reliable system for evaluating the mechanical properties.

2-Measuring dram of sensitivity ±0.01mm was used for dimensions evaluation.

3- Weighing Balance with tolerance + 0.0001 g was used in determining the weights.

4- All used Machineries and apparatuses were calibrated periodically.

The following tables give the obtained results representing the sample delivered from your company.







Application Instructions

Equipment required:

- isoFlex PVC® jointing jig.
- electrically heated welding blade.
- Sharp knife.
- Wire brush.

Step 1

To trim the waterstop to length carefully measure the length of waterstop required and add 5 to 6mm to each mating end to allow for melting of the compound during the heat welding process. Clamp the end to be trimmed into one of the jointing jigs and cut to the required length using the side of the jig as a guide.

Step 2

Repeat this operation for the other mating end.

Clamp the two ends into their respective sides of the jointing jig, with approximately 10mm projecting and engage the guide rods.

Step 3

Plug in the welding blade and allow to warm up. Using a small offcut of waterstop, check that the blade reaches a temperature sufficient to melt the PVC.

When the blade is at melt temperature, place it on edge on the guide rods of the jig between the mating ends of the waterstop and press the waterstop firmly against either face of the blade.





isoFlex PVC®



Step 4

The PVC will start to melt in contact with the blade. Maintain the pressure against the blade until a 5mm diameter bead of molten PVC has formed on both sides all around the section.

When this has happened, pull the jig apart and lift away the blade with an upwards motion taking care to avoid too much displacement of the molten PVC bead. Turn off the blade.

Without delay, whilst the PVC is still molten, press the two mating ends together and hold firmly for 20 seconds or so until the joint has cooled and solidified.

Step 5

Unclamp the jig and carefully lift out the waterstop allowing it to cool thoroughly.

Do not flex the joint until cool. Once cool inspect for imperfections.





Step 6

To fix to the rebar simply loop wire through the fixing eyelets and twist using a pair of pliers. This will leave the **isoFlex PVC**[®] Waterstop ready for your concrete pour.





Our Previous Submittals & Approvals



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isoFlex PVC Submittal - December 2023, Version

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: 22 El-Shaheed Mohamed Abd El-Hadi Street, Nasr City, Cairo : www.iChemEg.com : info@ichemeg.com

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