

## TEST REPORT

REPORT NO.: 2020PC0644

PAGE : 1 OF 4

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### THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : UNITY RELIANCE (M) SDN BHD  
No. 6-2, Jalan Meranti SD 13/5  
Bandar Sri Damansara  
52200 Petaling Jaya  
Selangor

Manufacturer : - NA -

Product : PVC WATERSTOP  
Brand: "UniStop"

Reference Standard/  
Method of Test : 1) ASTM D412: 2015a - Standard Test Methods for Vulcanized  
Rubber and Thermoplastic Elastomers – Tension  
2) ISO 62: 2008 – Plastics – Determination of Water Absorption  
3) BS EN ISO 1183-1: 2012 – Plastics - Methods for Determining  
the of Non-Cellular Plastics – Part 1: Immersion Method, Liquid  
Pyknometer Method and Titration Method (ISO 1183-1: 2012)  
4) BS EN ISO 868: 2003 - Plastics and Ebonite – Determination of  
Indentation Hardness by Means of a Durometer (Shore Hardness)

Description of Sample : Please refer to Figure 1 in Page 2 of this test report

Date Received of  
Complete Application : 28 July 2020

Job No. : J20201460421


Description of Test  
Results : The test results of the submitted test sample are described in  
Pages 3 and 4 of this test report.

Issued Date : 18 August 2020

Approved Signatories:



(Nomaizura Zakaria)  
Testing Executive



(Rahmad Abd Shukor)  
Head

Plastics and Composite Materials Section  
Testing Services Department

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### Description of Sample:

Test specimens shown in Figure 1 were received on 28 July 2020.

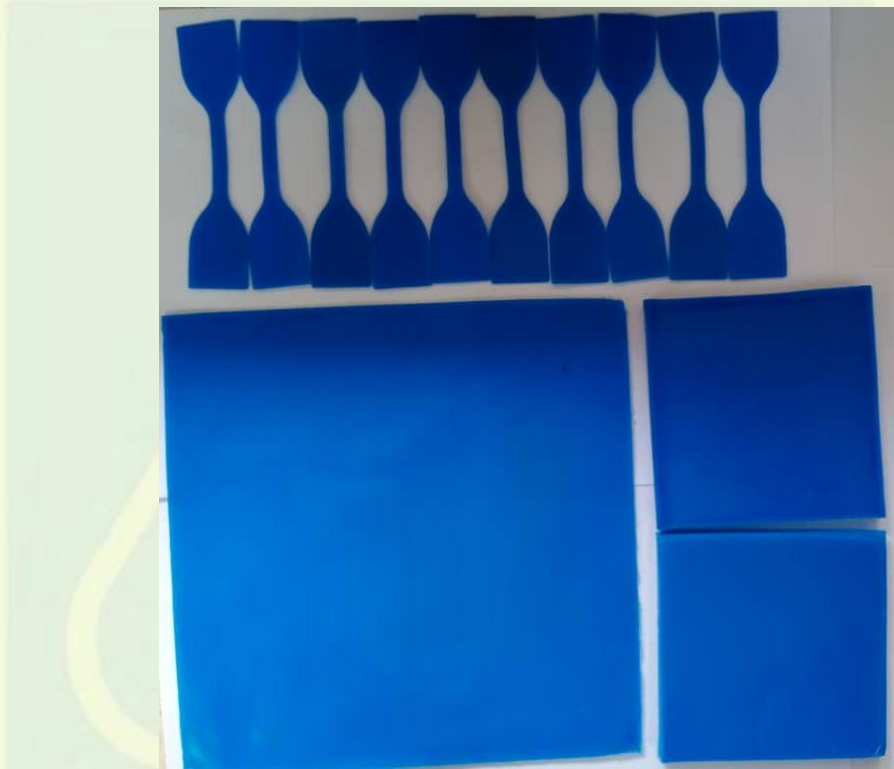


Figure 1. Photograph of PVC WATERSTOP; Brand: "UniStop" Test Specimens



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**Results:****PVC WATERSTOP****Brand: "UniStop"**

NO.	PROPERTY	RESULT	TEST METHOD
1	Hardness, Shore A	78	BS EN ISO 868  Test parameters: <ul style="list-style-type: none"> <li>• Time interval: 15 seconds</li> <li>• Specimen thickness: 5.94 mm</li> <li>• Number of layer: 1</li> </ul> Test date: 12 August 2020
2	Water Absorption	0.1 %	BS EN ISO 62  Test parameters: <ul style="list-style-type: none"> <li>• Method 1</li> <li>• Temperature: 23°C</li> <li>• Duration: 24 hours</li> <li>• Number of specimens tested: 3</li> </ul> Test date: 12 to 13 August 2020
3	Specific Gravity	1.30	BS EN ISO 1183-1  Test parameters: <ul style="list-style-type: none"> <li>• Method 1</li> <li>• Immersion liquid: Water</li> <li>• Test temperature: 23°C</li> </ul> Test date: 12 August 2020



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**Results:****PVC WATERSTOP****Brand: "UniStop"**

NO.	PROPERTY	RESULT	TEST METHOD
4	Tensile Strength	16.8 N/mm <sup>2</sup>	ASTM D412 Test parameters: <ul style="list-style-type: none"><li>• Specimen type: Dumbbell Die C</li><li>• Test speed: 500 mm/minute</li><li>• Gauge length: 25 mm</li><li>• Number of specimens tested: 5</li></ul>
5	Elongation at Break	460 %	Test date: 13 August 2020



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1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass-produced Product. When a statement of conformity to a specification or standard is applied, the Measurement Uncertainty of test has been considered
2. The Test Report shall not be amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Chief Executive Officer of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
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6. If such approval is obtained from the Chief Executive Officer of SIRIM QAS International, the Applicant may only include the phrase, "A sample of this product has been tested by SIRIM QAS International (Test Report No) ... (dated) .... (for what test) ... (to which standard)" or such similar words which stress that only the Sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures). For avoidance of doubt, the statement shall not be used on the sample and packaging of the sample.
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  - a) Informing and placing a notice in the media;
  - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
  - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
  - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
  - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
10. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, certified true copy(ies) of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.
11. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant :
  - a) Changes in details of the Applicant name and/or address;
  - b) Changes in details of the Manufacturer's name and/or address;
  - c) Changes in details of the Factory location name and/or address;
  - d) Changes in details of the model and/or type designation
12. However, issuance of Supplementary Report due to the following reasons are FOC :
  - a) Misprints and typo errors;
  - b) Missing technical information as agreed in PP1 form;
  - c) Test data not reported;
  - d) Mistake in reporting of test data
13. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.