

FUGRO TECHNICAL SERVICES LIMITED

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Client Ref. : --

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Report No. : 130489ST130165(3)A

TEST REPORT

CLIENT : Unique Engineering (HK) Ltd.
TITLE : Testing of uPVC Fitting
DESCRIPTION : uPVC pressure fitting
BRAND : DFP
COUNTRY OF ORIGIN : TAIWAN / CHINA
MANUFACTURER : KUNSHAN SHIEYU VALVE CO., LTD.
BODY MARKINGS : As shown below :

Pipe Size (inch)	Body Markings
10"	10" UPVC SCH80 D2467 L90° -ANSI-265 KS-001
12"	UPVC NSF-pw 12" 90° ELL SCH 80 D2467
14"	NA

METHOD OF TEST : BS EN ISO 1452-3 : 2010

PERIOD OF TESTS : 24 May 2013 to 10 June 2013

TEST RESULTS :**1. DIMENSION**

Nominal Size (inch)	Sample		
	10"	12"	14"
Body wall thickness	16.8	22.2	19.4
Depth of socket	123.6	165.5	194.4
Mean socket internal diameter at mid point of socket depth	273.3	324.7	353.6

2. SHORT-TERM HYDROSTATIC PRESSURE TEST

		Test pressure (bar)	Duration (hour)	Remark
Sample	10"	54	1	Pass
	12"	54	1	Pass
	14"	54	1	Pass

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3. EFFECTS OF HEATING TEST

Pipe Size (inch)	Test Temperature	Duration	Observation	Remark
10"	150°C	60 minutes	No blisters, excessive delamination or cracking or sign of weld line splitting	Pass
12"			No blisters, excessive delamination or cracking or sign of weld line splitting	Pass
14"			No blisters, excessive delamination or cracking or sign of weld line splitting	Pass

4. VICAT SOFTENING TEMPERATURE

Lab Sample I.D.	Size (inch)	Sample Thickness (mm)	VST Temperature (°C)	BS EN ISO Requirement
ST130165/139	10	3.8	81	≥74
ST130165/140		3.8	83	
ST130165/141		4.0	83	
		Average	82	

Lab Sample I.D.	Size (inch)	Sample Thickness (mm)	VST Temperature (°C)	BS EN ISO Requirement
ST130165/142	12	3.7	83	≥74
ST130165/143		3.8	84	
ST130165/144		4.0	83	
		Average	83	

Lab Sample I.D.	Size (inch)	Sample Thickness (mm)	VST Temperature (°C)	BS EN ISO Requirement
ST130165/145	14	3.9	84	≥74
ST130165/146		3.8	84	
ST130165/147		3.8	83	
		Average	84	

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5. SUMMARY OF RESULTS (apply only to the sample tested)

Dimensions	- As shown in section 1
Short-term hydrostatic pressure test	- Satisfactory
Effect of heating test	- Satisfactory
Vicat softening temperature	- Satisfactory

Remark : 1.) The test results relate only to the samples tested.
2.) This report is to supersede our previous test report no. 130489ST130165(3).

Checked by : Igor Date : 04 MAY 2015 Certified by : Ivan Date : 04 MAY 2015
Chan Chun Wai Ivan
Manager (Product Testing Laboratory)

**** End of Report ****