GOVERNMENT OF DUBAI

DUBAI MUNICIPALITY

Dubai Central Laboratory

Engineering Materials Laboratory Section – Structural Unit

TEST REPORT

FLEXURAL STRENGTH OF THERMAL INSULATION

REPORT NO.	: 2014029405	**DATE**	: 09/04/2014
WEB REQUEST NO.	: DCL-27032014-0114		
REQUEST NO.	: 2014017894	**SAMPLE NO.**	: 2014025706
PROJECT NO.	: PS14-0041		
PROJECT NAME	: MODERN VENT. & INSUL.SYSTEMS FACTORY(HUYA)-K.S.A.		
CONSULTANT	: NO SPECIFIC CONSULTANT		
CONTRACTOR	: NO SPECIFIC CONTRACTOR		
LOCATION	: MODERN VENT. & INSUL.SYSTEMS FACTORY(HUYA)- DAMMAM, K.S.A.		
SOURCE	: MODERN VENT.&INSU.SYSTEMS FACTORY(HUYA)K.S.A.		
SAMPLE DESCRIPTION	: POLYISOCYANURATE RIGID FOAM INSULATION		
SAMPLE TYPE	: PIR PRE-INSULATED HVAC DUCT PANEL	**NOM. THICKNESS (mm)**	: 20
SUPPORT / FACING	: 80 MIC"AL" FACING ON BOTH SIDES	**NOM. DENSITY (kg/m³)**	: NG

Date of Sampling	: 19/01/2014	**Time**	: 10:00	**Lot No.**	: NG
Date of Receiving Sample	: 27/03/2014	**Time**	: 11:00	**Lot Size**	: NG
Size of Sample	: 4 Nos.	**Area No.**	: -	**Sender No.**	: NG

DATE SPECIMEN RECEIVED	27/03/2014
NOM. LENGTH (mm)	300
NOM. WIDTH (mm)	100
NOM. THICKNESS (mm)	20
PRE-CONDITIONING TEMP, RH, & DURATION	23±2°C, 50±5% RH
TEST CONDITION	23±2°C, 50±5% RH

SPECIMEN NO.	**1**	**2**	**3**	**4**
DIRECTION OF CUTTING & LOADING	**L**	**L**	**C**	**C**
MEASURED DENSITY (kg/m³)	**65.3**	**65.3**	**65.2**	**64.7**
SUPPORT SPAN LENGTH (mm)	**250**			
CROSSHEAD SPEED (mm/min)	**5.0**			
DIAMETER OF SUPPORT EDGES (mm)	**30**			
DEFLECTION CORRESPONDING TO MAX. FORCE (%)	**5.0**	**5.0**	**0.9**	**0.9**
FLEXURAL STRENGTH (kPa)	**818.0**	**882.9**	**1006.2**	**1018.6**
AVG. FLEXURAL STRENGTH (kPa)	**931.0**			
STANDARD DEVIATION	**97.32**			

SAMPLED BY	: ADAM MAHAT (Mfr.)	**TESTED BY**	: SANKAR RAJU
SAMPLES BROUGHT IN BY	: COURRIER	**TEST START DATE**	: 30/03/2014
SAMPLING METHOD	: NOT GIVEN		
SAMPLING REPORT NO.	: NG		
TEST METHOD	: ASTM C 203 -05a METHOD 1: PROCEDURE B		
TEST METHOD VARIATION	: NIL		
REMARKS	: THIS REPORT REPRESENTS THE SUBMITTED SAMPLE ONLY.		

*Specimen Nos 1&2, stress @5% deformation determined as per clause 10.1.6 of ASTM C 203.

AUTHORIZED BY
HEAD OF UNIT

This report is computer approved, it does not require any signature

DAC
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