



**SETSCO SERVICES PTE LTD**

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Your Ref.: PO: 21/11/217

Dated 21/11/2011

Our Ref.: CT-18381/SL/1

**TEST REPORT**

Date: 02/12/2011

Page 1 of 2

(This Report is issued subject to the terms & conditions set out below)

**Subject** : Testing of rubber polymer submitted by Quantum Biotech Pte Ltd on 18/11/2011.

**Tested For** : **QUANTUM BIOTECH PTE LTD**  
4 Loyang Lane  
#05-02  
Singapore 508914  
Attn: Mr IS Ting

**Method of Test** : Shore Hardness : Adopted ASTM D2240 : 05  
Density : Adopted ASTM D 792 : 00  
Compression Load : Adopted ASTM D575 : 91 (01)

**Description of Sample** : Four moulded pieces of rubber polymer labelled "Polymer March 2010", "Polymer May 2011", "Polymer Oct 2011" and "Polymer (HCT) More than 2 years" respectively were received.  
(Refer to Photograph attached)

**Results** : Refer to Page 1 and 2

**(1) Shore D Hardness**

Sample Reference	Rubber Polymer			
	Polymer March 2010	Polymer May 2011	Polymer Oct 2011	Polymer (HCT) More than 2 years
Date of Test	30/11/2011			
Test Conditions	22°C / 51% R.H.			
Type of Durometer	D			
Shore Value	71	66	65	81

*f jmn*  
Teo Seng Lee  
Testing Officer

*cl*  
Shirley Lim Suidi  
Engineer (CMTD)  
Construction Technology Division

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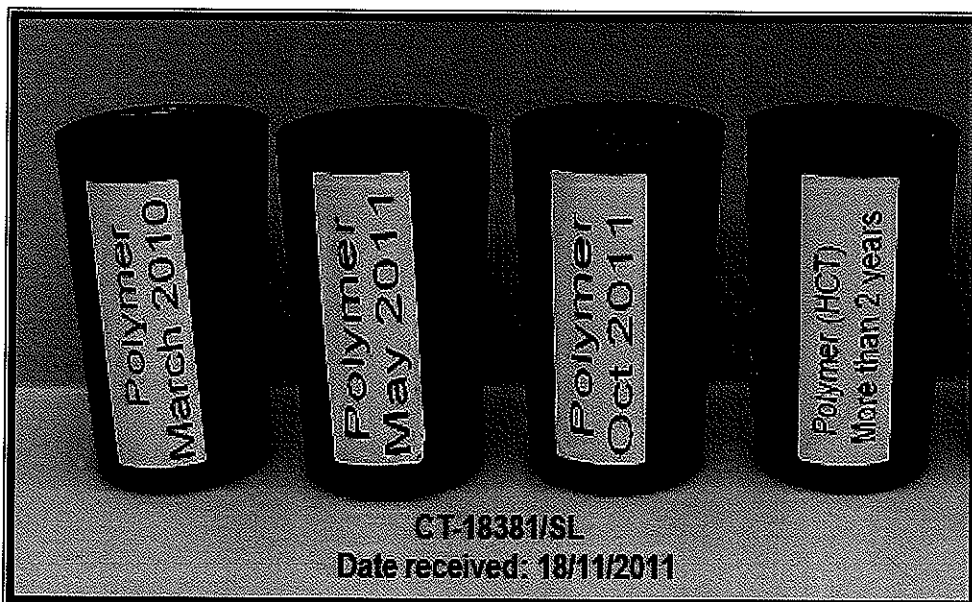
Results:

(2) Density

Sample Reference	Rubber Polymer			
Specimen Reference	Polymer March 2010	Polymer May 2011	Polymer Oct 2011	Polymer (HCT) More than 2 years
Date of Test	30/11/2011			
Test Conditions	22°C / 51% R.H.			
Density (g/cm <sup>3</sup> )	1.077	1.074	1.068	1.091

(3) Compression Load

Sample Reference	Rubber Polymer			
Specimen Reference	Polymer March 2010	Polymer May 2011	Polymer Oct 2011	Polymer (HCT) More than 2 years
Date of Test	30/11/2011			
Test Conditions	25°C / 50% R.H.			
Test Speed	12 mm/min			
Diameter (mm)	31.45	31.08	31.45	31.33
Height (mm)	12.75	12.62	12.50	12.72
Maximum Compression Load @ 20% Deflection (N)	24642.25	20873.74	15808.42	26859.06
Compressive Stress @ 20% Deflection (KPa)	31721.17	27513.66	20349.67	34840.16



Photograph: Four pieces of rubber polymer in casings as received

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*cl*