

Natural Rubber Blocks



Colour	Black
Hardness	60 +/-5 ShoreA
Tensile Strength	3MPA
Elongation	150% - 200%
Temperature Range	-30°C to 110°C
Surface	Smooth
Density	1.6g/cm ³

Amended Report / Certificate

This replaces previous Report / Certificate no.:
INZ70598-01 dated 10/9/20.

File Ref: INZ 70598

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TEST CERTIFICATE No.: INZ70598-01A

Client: NZ Rubber & Foam Ltd
Order No.: 020920
Sample Description: Rubber samples as supplied
Identification: As listed
Material Specification: Natural and Neoprene rubber
Tested in accordance with: Client Instruction

Test: The displacement and load of rubber samples supplied (100mm x 100mm x 20mm) was measured as the sample was placed under compression.

Loading rate: 25mm/min

Results:

Sample		Load at displacement		
		5mm	10mm	13mm*
Natural	kN	44.0	163.8	410.2
	kg	4490	16700	41810
Neoprene	kN	26.0	95.3	265.4
	kg	2650	9710	27050

Note:

Natural Rubber test was ended prematurely due to program parameters
kN measurements rounded to 1dp. Kg measurements rounded to nearest 10kg

Natural vs Neoprene

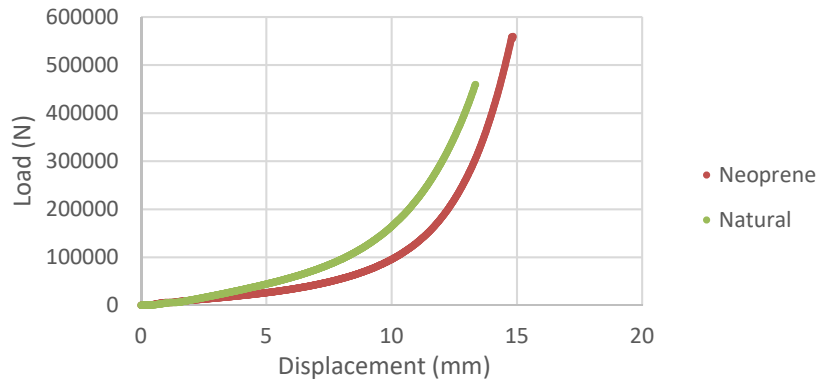


Figure 1: Compression load vs displacement

Acceptance Criteria: Report findings

Tested by: J. McClintock

Reviewed By: Kelvin Chin

Authorised By: Jen Sun Hong

Date: 7-Sep-20

11-Sep-20

Kelvin Chin

11-Sep-20

Jen Sun Hong

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TEST REPORT No.:	INZ70598-02
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File Ref: INZ 70598

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Client:	NZ Rubber & Foam Ltd
Sample Description:	Machined Rubber
Material Specification:	Not supplied
Tested in accordance with:	ASTM D412 - 2006
Tensile:	Type: Reduced section

Order No.:	TBD
Sample Identification:	As listed
Sample Dimensions:	As listed

Specimen Axis: Not specified

Conditions:	a. Temperature:	Ambient ($23 \pm 5^\circ\text{C}$)	b. Strain Rate:	Uncontrolled	c. L_e =	NA	d. Ageing:	NA
	e. Other:							

Specimen	Dimensions (mm)			Yield Stress (R _{el}) (MPa)	0.1% Proof Stress (R _{p0.1}) (MPa)	0.2% Proof Stress (R _{p0.2}) (MPa)	Ultimate Tensile Strength (R _m) (MPa)	Original Gauge Length (L _o) (mm)	Elongation (A) (%)	Reduction of Area (Z) (%)	Comments
	DIAMETER (d)	WIDTH (b)	THICKNESS (a)								
Natural Neoprene		20.92	12.15				4				
		19.87	11.69				5				
Specification Requirements:											

Specification Requirements:

Acceptance Criteria:	Report findings
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Tested By:	J. McClintock
Date:	8-Sep-20

Reviewed By: Alistair Remington
10-Sep-20 *Alistair Remington*

Authorised By: Jen Sun Hong
10-Sep-20 *Jen Sun Hong*

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