



Neoprene Rubber



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

- Good resistance to Grease and Oil
- Good ozone and U.V. resistance
- Suitable for outdoor applications
- Gaskets
- Baffles
- Joint Sealing
- Bearing Rubber



SGS New Zealand Ltd, NDT & Materials Services P O Box 12-356, Penrose, Auckland, New Zealand 22 Vestey Drive, Mt Wellington, Auckland, New Zealand Tel: (64-9) 634 3637 Fax: (64-9) 634 6728

Amended Report / Certificate

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

Page 1 of 1

File Ref: INZ 70598

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:

Sam	nlo	Load at displacement			
Sample		5mm	10mm	13mm*	
Natural	kN	44.0	163.8	410.2	
ivaturai	kg	4490	16700	41810	
Noopropo	kŇ	26.0	95.3	265.4	
Neoprene	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

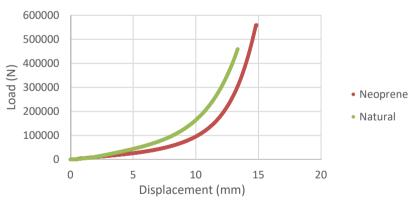


Figure 1: Compression load vs displacement

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 fen Sun Hong

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
WARNING: The sample(s) to which the findings recorded herein (the "Findings" relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) jarse said to be extracted/lniess otherwise stated the results shown in this test report refer only to the sample(s) tested. Samples will be retained for two (2) weeks after test date before disposal at SCS New Zealand Limited's discretion. Returning of samples to be advised in writing. Storage (when agreed by SGS New Zealand Limited) or return of samples at client's expense.



SGS New Zealand Ltd, NDT & Materials Services 22 Vestey Drive, Mt Wellington, PO Box 12 356, Penrose, Auckland Tel: 64 9 634 3637 Fax: 64 9 634 6728 Email: NZ Industry@sgs.com Web: www.sgs.com

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

Page: 1 of 1

NZ Rubber & Foam Ltd **TBD** Client: Order No.:

Machined Rubber Sample Description: Sample Identification: As listed Material Specification: Not supplied Sample Dimensions: As listed

ASTM D412 - 2006 Tested in accordance with:

Tensile: Reduced section Type: Specimen Axis: Not specified

Conditions: a. Temperature: Ambient (23 ± 5°C) b. Strain Rate: Uncontrolled c. L_e = NA d. Ageing: NA

o Othor

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

Report findings Acceptance Criteria:

Authorised By: Jen Sun Hong

Jen Sun Hong J. McClintock Reviewed By: Alistair Remmington

10-Sen-20

Alistair Permington Tested By: 10-Sep-20 Date: 8-Sep-20

This document is issued by the Company under its General Conditions of Service accessible at http://www.sg.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alleration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. WARNING. The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings of the Client's direction of the origin or source from which the findings recorded herein (the "Findings") related to the origin or source from which the findings recorded herein (the "Findings") related to the origin or source from which the findings recorded herein (the "Findings") related to the origin or source from which the findings recorded herein (the "Findings") related to the origin or source from which the findings recorded herein (the "Findings") related to the origin or source from which the findings recorded herein (the "Findings") related to the origin or source from the origin or s otherwise stated the results shown in this test report refer only to the sample(s) tested. Samples will be retained for two (2) weeks after test date before disposal at SGS New Zealand Limited's discretion. Returning of samples to be advised in writing. Storage (when agreed by SGS New Zealand Limited) or return of samples at client's expense.