



Testing Laboratory
0099

金屬工業研究發展中心區域研發服務處(中區)

METAL INDUSTRIES RESEARCH & DEVELOPMENT CENTRE
REGIONAL R&D SERVICE DEPARTMENT (TAICHUNG)
40768 台中市工業區 37 路 25 號 TEL : (04)23502169
No.25, 37th Road, Industrial Park, 40768 Taichung, Taiwan



Mechanical Testing Laboratory TESTING REPORT

Applicant : WENZHOU GC SEAL CO. LTD.
溫州市廣昌五金制品有限公司
Address : NO. 316-1 WEST WENQU ROAD OUHAI
WENZHOU 325016 ZHEJIANG CHINA
溫州市瓊海區溫瞿西路 316-1

Application No. : 10217076-T01
Received Date : 2011/1/31
Date Issued : 2011/2/11
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- (1).Name of Article : GC-C4001 CABLE SEAL
- (2).Test Item : Tensile Test
- (3).Testing Instrument :
Universal Testing Machine
(No.TG0103)
- (4).Ambient Temp. : 20°C
- (5).Inspection Reference : According to ISO 17712 : 2010(E)
- (6). Result :

Tensile Test Section 5.2

ISO17712 : 2010(E)

The seal was gripped in a tensile machine and a pull force applied.

Specimen No.	Requirement Load to failure	Result KN	Seal classification
GC-C4001	10.0 KN : High security seal 2.27 KN : Security seal <2.27 KN : Indicative seal	12.42	High security seal



Tensile Set up



Tensile End of Test

Note : (1)Testing lab : Certified according to ISO/IEC 17025 : 2005
(Taiwan Accreditation Foundation , Accreditation No. : 0099)
(2) This report is responsible for designated samples only.
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Report Authorized Person :



Carol

Inspector :



Chang, Hsi-Jui



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Application No. : 10217076-T02

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- (1).Name of Article : GC-C4001 CABLE SEAL
(2).Test Item : Shear Test
(3).Testing Instrument : Universal Testing Machine (No.TG0101)
(4).Ambient Temp. : 20°C
(5).Inspection Reference : According to ISO 17712 : 2010(E)
(6). Result :

Shear Test Section 5.3

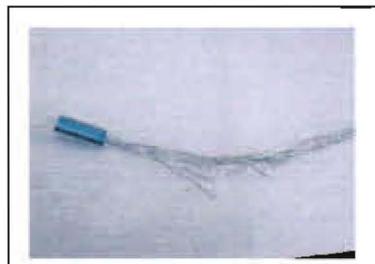
ISO17712 : 2010(E)

The seal was fixed in a universal testing machine to withstand cutting with shearing blades and a compressive load applied slowly until the seal is severed.

Specimen No.	Requirement Load to failure	Result KN	Seal classification
GC-C4001	3.336 KN : High security seal 2.224 KN : Security seal <2.24 KN : Indicative seal	7.64	High security seal



Shear Set up



Shear End of Test

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Application No. : 10217076-T03
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- (1).Name of Article : GC-C4001 CABLE SEAL
(2).Test Item : Bending Test
(3).Ambient Temp. : 20°C
(4).Inspection Reference : According to ISO 17712 : 2010(E)
(5). Result :

Bending Test Section 5.4

ISO17712 : 2010(E)

Fix the locking end and flex the material adjacent to this fixed end repeatedly through an arc of 180° until failure

Specimen No.	Requirement Cycles to failure	Result Cycles	Seal classification
GC-C4001	501 : High security seal 251 : Security seal <251 : Indicative seal	>501	High security seal



Bend Set up



Bending End of Test

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Application No. : 10217076-T04

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- (1).Name of Article : GC-C4001 CABLE SEAL
(2).Test Item : Impact Test
(3).Testing Instrument :
1. Impact Tester
2. Programmable Low Temp. Tester (No.SG5501)
(4).Inspection Reference : According to ISO 17712 : 2010(E)
(5). Result :

Impact Test Section 5.5

ISO17712 : 2010(E)

The impact test is performed at 18 degrees C and minus 27 degrees C of temperature.
The impact load is applied at the locking mechanism of the seal in the direction
opposite the direction used in locking the seal.

Specimen No.	Requirement	Result Joule		Seal classification
		18 °C	-27 °C	
GC-C4001	40.68J : High security seal 27.12J : Security seal <27.12J : Indicative seal All five time	>40.7	>40.7	High security seal

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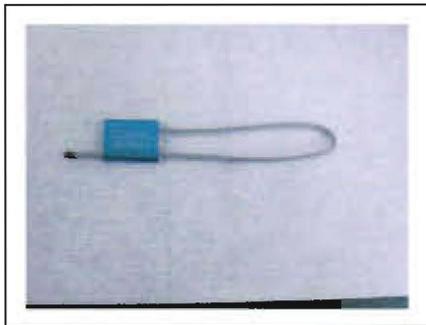
Programmable Low Temp. Tester



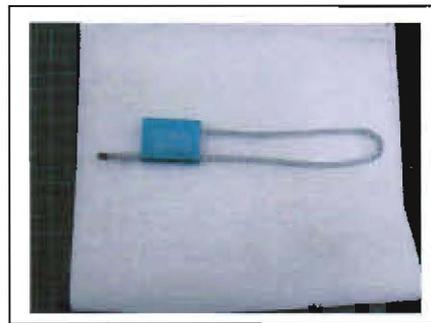
Impact Tester



Impact Set up



18°C Impact End of Test



-27°C Impact End of Test
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