

Report

No. 02-03326

Client Address: 6-47-7, Satanakamachi, Moriguchishi, Osaka, Japan
Company name: Nichido Ind. Co., Ltd.

Name of sample (designation proposed by client)

Multi Hook universal hook (round hook, single-pipe hook, square hook)

Quantity: 3

This document reports the result of test(s) conducted on the sample(s) submitted to TRI-Osaka as follows.

December 11, 2006

大阪府立産業技術総合研究所長

Test item

Tension test

Test temperature : 23°C

Test humidity : 50%

Test equipment : Instron materials tester (model 5582)

Test method : Each of the samples was mounted on the materials tester
(as shown in the figures below)
and subjected to a tensile load at a crosshead speed of 100mm/min.

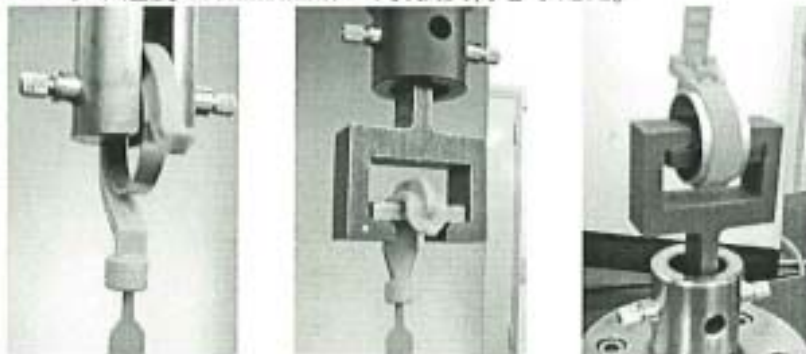


Figure : Sample mounted on tester

Test result : The load-displacement curves obtained are shown on the following page.
The values are as shown below.

| Name of sample | Maximum tensile load(N) | Remarks (section broken) |
|------------------|-------------------------|--------------------------------|
| Round hook | 262 | Hook deformed and fell |
| Single-pipe hook | 227 | Hook deformed and fell |
| Square hook | 500 | Connecting belt(top) came off. |

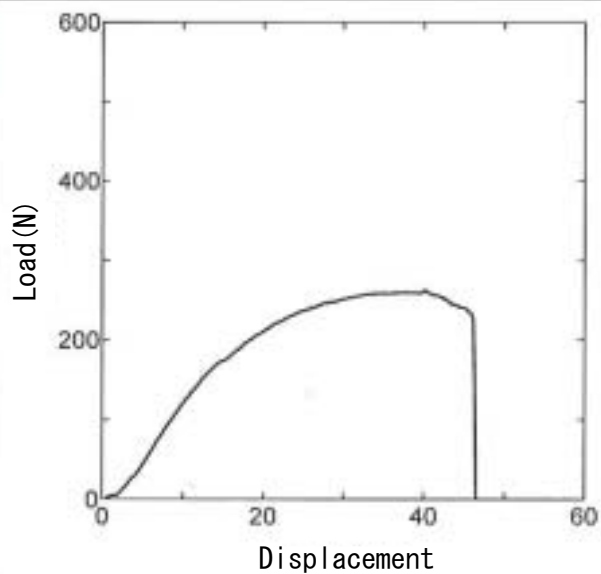


Figure : Load-displacement curve(round hook)

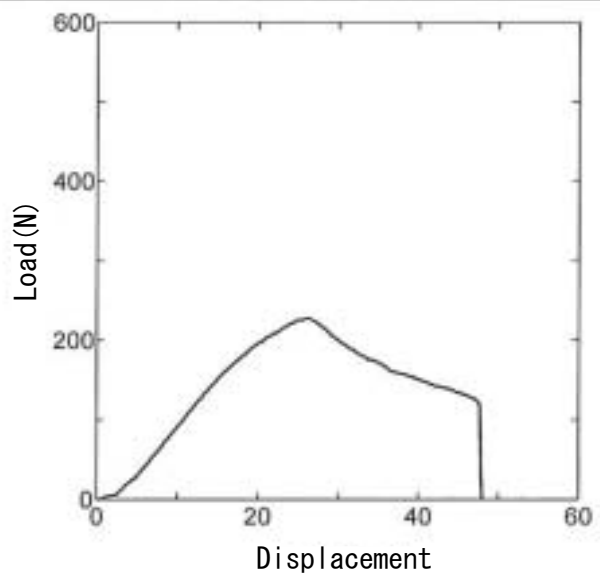


Figure : Load-displacement curve(single-pipe hook)

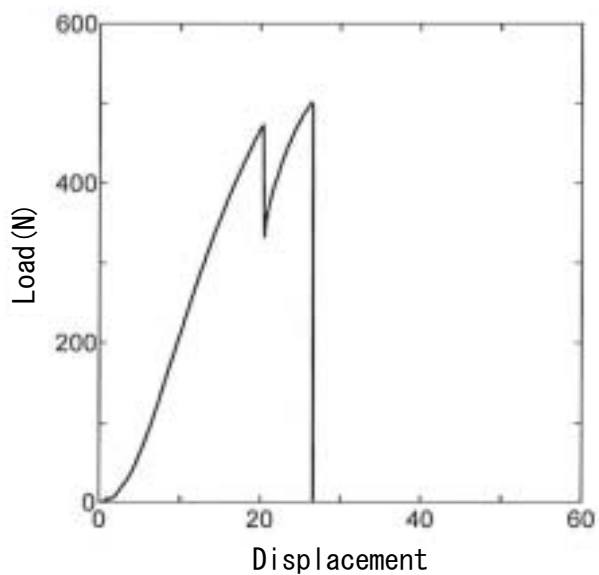


Figure : Load-displacement curve(square hook)

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Report

No. 02-03116

Client Address: 6-47-7, Satanakamachi, Moriguchishi, Osaka, Japan
Company name: Nichido Ind. Co., Ltd.

Name of sample (designation proposed by client)

Multi Hook universal hook (round hook, one touch stopper, connecting belt)
(Single-pipe hook, connecting dumbbell, connecting joint, connecting belt)
(Square hook, connecting belt. short tie) (Hand grip, connecting belt) Quantity: 4

This document reports the result of test(s) conducted on the sample(s) submitted to TRI-Osaka as follows.

December 28, 2006

大阪府立産業技術総合研究所長

Test item

Tension test

Test temperature : 23°C

Test humidity : 50%

Test equipment : Instron materials tester (model 5582)

Test method : Each of the samples was mounted on the materials tester
(as shown in the figures below)
and subjected to a tensile load at a crosshead speed of 100mm/min.

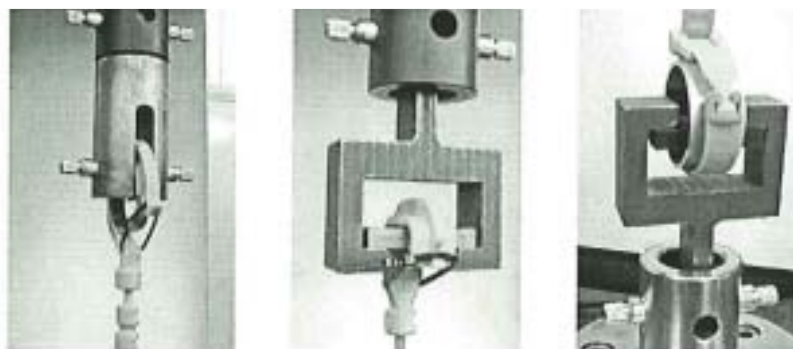


Figure : Sample mounted on tester

Test result: The load-displacement curves obtained are shown on the following page.
The values are as shown below.

| Name of sample | Maximum tensile load(N) | Remarks (section broken) |
|------------------|-------------------------|--------------------------------|
| Round hook | 548 | Connecting belt(top) came off. |
| Single-pipe hook | 566 | Cable tie broken |
| Square hook | 519 | Connecting belt(top) came off. |
| Hand grip | 402 | Connecting belt(top) came off. |

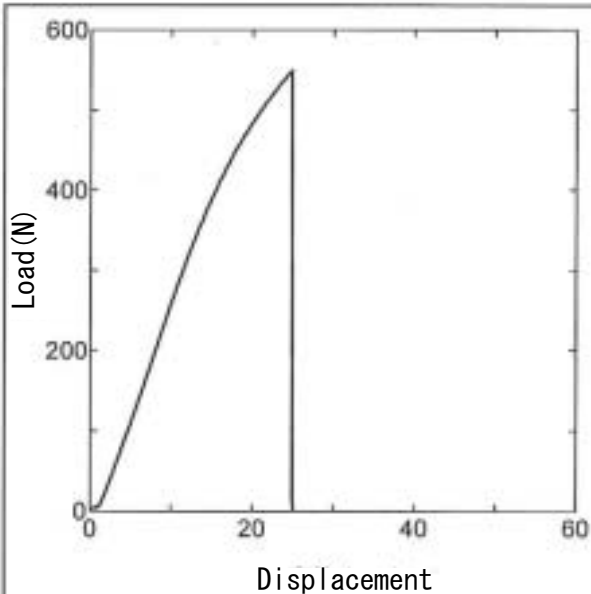


Figure : Load-displacement curve(round hook)

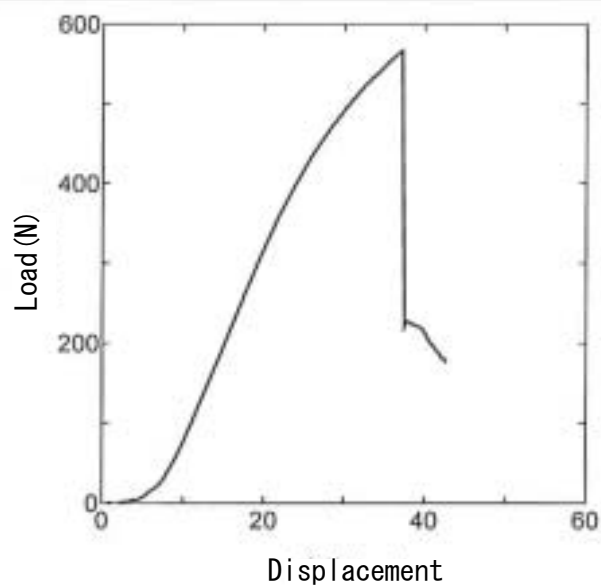


Figure : Load-displacement curve(single-pipe hook)

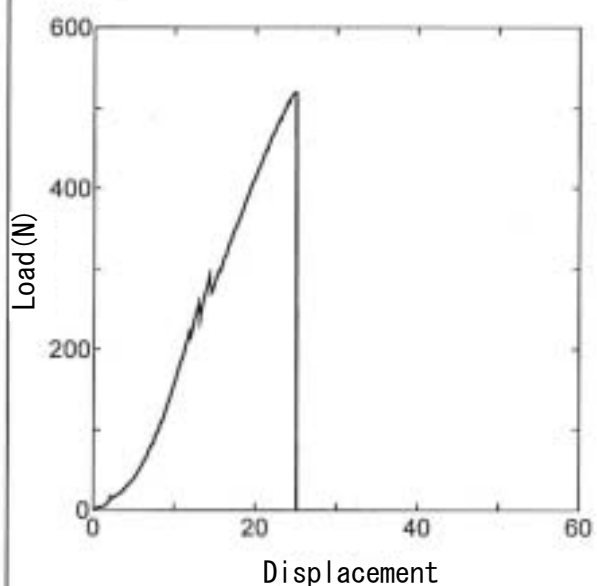


Figure : Load-displacement curve(round hook)

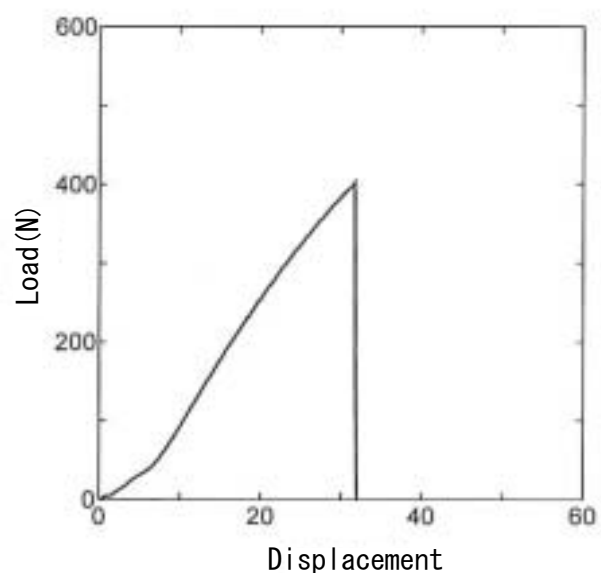


Figure : Load-displacement curve(hand grip)

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