

Test Report: Nr.:

412.408-1

Date:

2014-04-07

Compression fittings "Fibre-Line" out of polycarbonate (PC)

Client:

Franz Elkuch AG

Burstried 9 9465 Salez SWITZERLAND

Subject:

Compression fittings with the trade name "Fibre-Line" out of

polycarbonate (PC) in the dimension 12 mm

Task:

Determination of burst pressure, leak tightness and pull-out

strength

Order:

Written dated on 2014-03-04

Date of sampling:

Location of sampling:

Receipt of samples:

2014-03-17

Ref:

DI (FH) Ker / Vyc



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Non-accredited procedures applied have been named as such. OFI Technologie & Innovation GmbH

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1 SCOPE OF WORK

According to the order the burst pressure, leak tightness and pull-out strength of compression fittings with the trade name "Fibre-Line" out of polycarbonate (PC) in the dimension 12 mm was evaluated.

2 SCOPE OF APPLICATION

The results given in this test report have been obtained under the specific conditions of the individual tests. They shall serve as a proof for the client of the performance of those samples tested, according to the standard(s) agreed on.

3 SAMPLE MATERIAL

The samples listed in Table 1 had been sent by the client to the OFI Technologie & Innovation GmbH (subsequently OFI) for the purpose of testing.

Table 1: Description of samples

Sample	Description of samples
1	15 pieces of compression fittings (couplers) in the dimension 12 mm
2	5 m pipes in 12x2,0 mm

4 TESTS

All tests were carried out between 2014-03-17 and 2014-04-07 in the individual technical departments within the scope of competence of the authorised signatories according to the OFI QM-Manual.

4.1 BURST-PRESSURE

Compression fittings (couplers) were connected with pipes with a length of 200 mm each. An increasing internal pressure at a temperature of 20 °C with water as a pressure medium was applied on the samples.

The burst-pressures were determined on the samples with 15.45 bar, 14.51 bar and 25.56 bar (average value of burst-pressure of 18.5 bar).



4.2 LEAK TIGTHNESS

Three compression fittings (couplers) were connected with pipes with a length of 200 mm each into one arrangement. The arrangement was applied with an internal pressure of 15 bar over a period of 30 min at a temperature of 20 °C with water as a pressure medium.

After the 30 min did pass, the pressure was detected and the pressure supply stopped for 1 h. After that period the remaining pressure was noticed. The pressure drop during that time was 1.05 bar.

4.3 PULL-OUT STRENGTH

Compression fittings (couplers) were connected with pipes (12x2.0 mm) with a length of 200 mm each and subjected to the determination of the pull-out strength using a tensile testing machine. The tests were performed at 20 °C and 50 % r.h. with a testing speed of 100 mm/min,

The pull-out strength was determined on the samples with 406 N, 468 N and 432 N (average value of the pull-out strength of 435 N).

This test report no. 412.408-1

comprises 4 sheet(s)

1 table(s), 0 figure(s),

0 enclosure(s).

Testing staff

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