

STORK⁺
 Materials Technology

Stork Southwestern Laboratories

 222 Cavalcade Street, 77009-3213
 P.O. Box 8768, Houston, Texas 77249-3768
 Tel: (713) 692-9151 Fax: (713) 696-6205

Attention: Bill Reinhardt
Rumber Materials, Inc.
 621 West Division Street
 Muenster, TX 76252
 P: 940-759-4181 / F: 940-759-4011

W/O. No.: RUM004-12-27-01482-1
 P.O. No.:
 Report Date: 12/30/2005

RECEIVED JAN 11 2005

Project: Stork has been asked to perform a series of tests to determine the behavioral properties of Rumber's composite flooring (board) material, in a new condition compared to material that has been in service for approximately 10 years.

The tests selected were chosen to give representative properties for comparative purposes. There are any number of tests that could also be performed should other property behavior be desired.

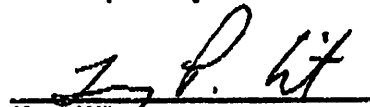
| Material Property | Result on 10 yr old board | Result on new board |
|----------------------------------|---------------------------|----------------------|
| Flame spread | 6 min., 20 sec. average | 7 min., 30 sec. |
| Tensile strength | 640 psi | 690 psi |
| Flexural modulus | 13,100 psi | 15,290 psi |
| Water absorption | 0.33% | 0.43% |
| Coefficient of thermal expansion | 5.4×10^{-3} | 6.1×10^{-3} |
| Compressive strength modulus | 44,800 psi | 37,225 psi |
| Static COF dry | 0.50 | 0.49 |
| Static COF wet | 0.42 | 0.46 |
| Sliding COF dry | 0.34 | 0.56 |
| Sliding COF wet | 0.30 | 0.54 |

In summary, the 10 year old board exhibited values similar to those of a new board. The results do indicate that a board from 10 years of service will experience what could be considered a slight loss of polymers or some other base material due to degradation. This would account for a slightly higher burn rate for a 10 year old board, a reduction in the tensile strength, flexural modulus and coefficient of friction. The higher compressive strength modulus, yet reduced water absorption rate are also indicative of the material exhibiting some form of degradation, similar to a "drying" out theory applicable to many materials.

In conclusion, of the tests performed, the 10 year old board does not exhibit any loss of integrity, strength, or other properties that would deter continued use.

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Respectfully Submitted


 Terry Wilt
 Manager, Product Evaluation

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Materials Technology**Stork Southwestern Laboratories**222 Cavalcade Street, 77009-3211
P.O. Box 8788, Houston, Texas 77249-8788
Tel: (713) 692-9151 Fax: (713) 696-6205**Attention: Bill Reinhardt**
Rumber Materials, Inc.
621 West Division Street
Muenster, TX 76252
P: 940-759-4181 / F: 512/375-1972W/O. No.: RUM004-12-27-01483-1
P.O. No.:
Report Date: 12/27/2005

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Identification: Rumber Composite Board

Rumber boards received measured 5.5" wide, 12.25" long, with a nominal thickness of 2". The project was to determine if an object resting on the Rumber boards could withstand 0.5 g forces without moving. Various objects were selected for testing. The items were weighed, and a force applied of half of the objects' weight would equal a g force of 0.5. The forces were measured using a Shimpo Force Meter, SN 502543.

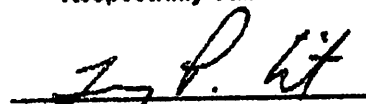
| Object and Weight | Average Measured Force to Generate Movement (lbs) | G force value | Force requirement to meet 0.5 G's (lbs) |
|--|---|---------------|---|
| Cardboard box, with contents weighing 5.8 lbs. | 6.1 | 1.1 | 2.9 |
| Carbon steel flange weighing 16 lbs. | 8.2 | 0.5 (0.51) | 8.0 |
| 50 lb. weight, leather surface | 27.0 | 0.5 (0.54) | 25.0 |
| 50 lb. steel weight | 24.1 | 0.5 (0.48) | 25.0 |
| 50 lb. weight, sanded wood finish | 23.8 | 0.5 (0.48) | 25.0 |
| 9 lb. metal carrying case, with 1/2" diameter metal footing pads | 4.3 | 0.5 (0.48) | 4.5 |

The Rumber composite boards submitted for testing meet the minimum g force test requirements of 0.5

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222 Cavalcade Street, 77009-3213
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Tel (713) 692-9151 Fax (713) 696-6307

Attention: Chuck Hickey
Rumber Materials, Inc.
621 West Division Street
Muenster, TX 76252
(512) 794-8473, 812/375-1972

W/O. No.: RUM004-03-27-25535-2
Date: 4/8/2002
P.O. No.: QUOTE# WJB030802

Project: Mechanical Testing

PROJECT INFORMATION

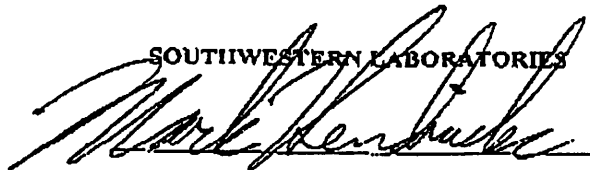
| | | | |
|------------------------|--|----------------------|------------------------|
| Material: | One (1) 31 1/2" x 32" Floor Section With Supports on 15 1/4" Centers | Technician: | M. Hendricks T. Garica |
| Identification: | N/A | Date of Test: | 4/3/2002 |
| Date Received | 3/27/02 | Procedure: | See Below |
| Specifications: | N/A | | |
| Test Equipment: | RH605 Ram with McDaniels 0-10,000 psi gauge S/N 54429, Load Frame, Dial Indicator# 81961 | | |

TEST PROCEDURE

Stork Southwestern Laboratories was requested by Rumber Material Inc. to perform load testing of one section of trailer floor using Rumber boards. The Rumber mock-up was placed in the load frame with a section of pipe 5" wide x 13 1/2" diameter that represents one wheel of a forklift. The section of pipe was placed in the middle of the center Rumber board with the ram on top of the pipe. The pressure was increased in the ram. The force output of the ram was measured at 0.100" of deflection measures by the dial indicator.

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NOT SUPPORTED
ON

12" CENTER

Sawn
plate

other
ON
BRACE

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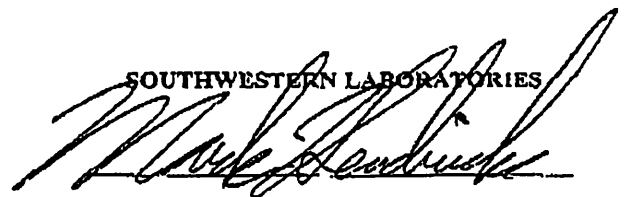
Attention: Chuck Hickey
Rumber Materials, Inc.
621 West Division Street
Muenster, TX 76252
(512) 794-8473, 812/375-1972

W/O. No.: RUM004-03-27-25535-1
Date: 4/8/2002
P.O. No.: QUOTE# WJB030802

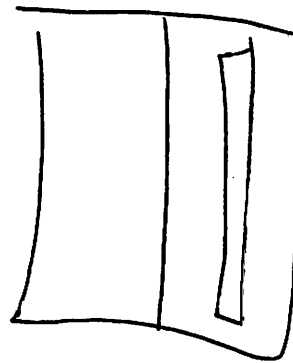
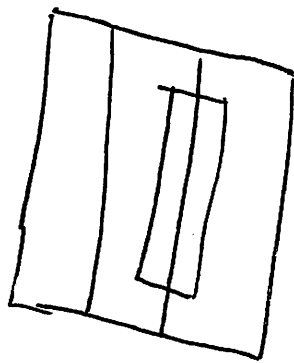
| Load, lbf. | Deflection | Load, lbf. | Deflection |
|------------|------------|------------|------------|
| 200 | 0.100 | 2,195 | 1.200 |
| 295 | 0.200 | 2,641 | 1.300 |
| 422 | 0.300 | 3,010 | 1.400 |
| 544 | 0.400 | 3,453 | 1.500 |
| 686 | 0.500 | 3,700 | 1.600 |
| 782 | 0.600 | 4,362 | 1.700 |
| 960 | 0.700 | 4,956 | 1.800 |
| 1,144 | 0.800 | 5,400 | 1.900 |
| 1,363 | 0.900 | 5,908 | 2.000 |
| 1,577 | 1.000 | 6,225 | 2.100 |
| 1,844 | 1.100 | | |

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W/O. No.: RUM004-03-27-25535-1
Date: 4/8/2002
P.O. No.: QUOTE# WJB030802

Project: Mechanical Testing

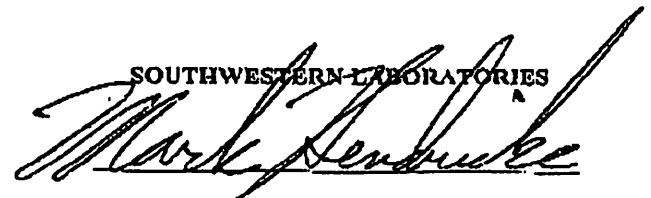
PROJECT INFORMATION

| | | | |
|------------------------|---|----------------------|------------------------|
| Material: | One (1) 31 1/2" x 36" Floor Section With Supports on 12" Centers | | |
| Identification: | N/A | | |
| Date Received | 3/27/02 | Technician: | M. Hendricks T. Garica |
| Specifications: | N/A | Date of Test: | 4/3/2002 |
| Test Equipment: | RH605 Ram with AXHCROF 0-1000 psi gauge S/N A10002, Load Frame, Dial Indicator# 81961 | Procedure: | See Below |

TEST PROCEDURE

Stork Southwestern Laboratories was requested by Rumber Material Inc. to perform load testing of one section of trailer floor using Rumber boards. The Rumber floor section was placed in the load frame with a section of pipe 5" wide x 13 1/2" diameter that represents one wheel of a forklift. The section of pipe was placed in the middle of the center Rumber board with the ram on top of the pipe. The pressure was increased in the ram. The force output of the ram was measured at 0.100" of deflection measures by the dial indicator.

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 (512) 794-8473, 812/375-1972

W/O. No.: RUM004-03-27-25535-2
 Date: 4/8/2002
 P.O. No.: QUOTE# WJB030802

| Load, lbf. | Deflection | Load, lbf. | Deflection |
|------------|------------|------------|---------------------------|
| 1,031 | 0.100 | 4,517 | 1.200 |
| 2,239 | 0.200 | 4,517 | 1.300 |
| 2,878 | 0.300 | 4,677 | 1.400 |
| 3,360 | 0.400 | 4,677 | 1.500 |
| 3,590 | 0.500 | 4,760 | 1.600 |
| 3,590 | 0.600 | 4,920 | 1.700 |
| 3,590 | 0.700 | 5,004 | 1.800 |
| 3,882 | 0.800 | 5,004 | 1.900 |
| 4,054 | 0.900 | 5,004 | Center support weld broke |
| 4,217 | 1.000 | 5,004 | 2.000 |
| 4,354 | 1.100 | | 2.100 |
| | | | |

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Attention: Chuck Hickey
Rumber Materials, Inc.
 621 West Division Street
 Muenster, TX 76252
 (512) 794-8473, 812/375-1972

W/O. No.: RUM004-06-21-15096
 Date: 7/31/2001
 P.O. No.: Chuck Hickey

Project: Mechanical Testing

PROJECT INFORMATION

| | | | |
|------------------------|---|----------------|--|
| Material: | Trailer Mock-up with three (3) 8 1/8" x 1 3/4" 9402 boards supported on , 1/4" "T" rails on 24" centers | | |
| Identification: | N/A | | |
| Date Received | 6/21/2001 | | |
| Specifications: | N/A | | |
| Test Equipment: | RH605 Ram with McDaniels 0-30,000 psi gauge S/N 54429, Load Frame, Dial Indicator | | |
| | Technician: | Mark Hendricks | |
| | Date of Test: | 7/30/2001 | |
| | Procedure: | See Below | |

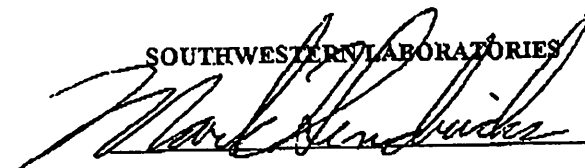
TEST PROCEDURE

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| Load - lb | Deflection | Load - lb | Deflection |
|-----------|------------|-----------|------------|
| 1650 | 0.100 | 7170 | 0.800 |
| 2200 | 0.200 | 7450 | 0.900 |
| 3310 | 0.300 | 7720 | 1.000 |
| 4970 | 0.400 | 8280 | 1.100 |
| 5520 | 0.500 | 8830 | 1.200 |
| 6070 | 0.600 | 9380 | 1.300 |
| 6620 | 0.700 | | |

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LABORATORIES**

222 Cavalcade St. ! P.O. Box 8768

Houston, Texas 77249

Telephone: (713) 692-9151

FAX: (713) 696-6205

Mr. Chuck Hickey
Rumber Materials, Inc.
3420 Executive Center Drive, Suite 200
Austin, Texas 78731

Project No.: 460565-03-23-11834
Date: 04/02/01
P.O. No.: 2197

Project: Physical Testing of Rumber Material

PROJECT INFORMATION

Material: Three - sections of Rumber, 1.75" x 7.25" x length of material
Date Received: 03/23/2001 Technician: Kitty Harvey
Specification: none Date of Test: 03/30/2001
Test Equipment: Instron 4507, s/n H1963 Procedure: ASTM D143, D198

TEST RESULTS

| Modulus of Rupture (lb. per sq. in.) | Modulus of Elasticity (lb. per sq. in.) | Compression Parallel to grain (lb. per sq. in.) | Shear Strength (lb. per sq. in.) |
|---|--|--|-------------------------------------|
| 562 | 5545 | 832 | 48.2 |

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STORK-SOUTHWESTERN LABS


Reviewed By



kh

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222 Cavalcade Street, 77009-3213
P.O. Box 8768, Houston, Texas 77249-8768
Tel (713) 692-9151 Fax (713) 696-6205**Ultimate Tensile Strength**

Tensile testing involves shaping of specimens into a number of different sizes, depending on the specification and material. Basically, the tensile sample will resemble a dog bone or hour glass. A reduced section is shaped into the area between the grips, so as to produce a failure between the grips. Tensile strength is determined by dividing the load it takes to achieve failure by the cross-sectional area of the reduced section.

ASTM D638 "Tensile Properties of Plastics"

We made samples that come from this specification, using a steel die. Samples had a width and thickness of approximately 0.5" each.

We also made two samples 1" wide by 0.5" width, and produced tensile strengths of 647 psi and 690 psi. These samples were not made to a particular specification.

| Sample | Tensile Strength (psi) |
|----------|------------------------|
| 1 (D638) | 498 |
| 2 (D638) | 785 |
| 3 (D638) | 787 |
| 4 | 690 |
| 5 | 647 |

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Attention: Paul Tannenbaum
US UTILITY ENCLOSURES
 2230 Highway 11 North
 Sweetwater, TN 37874
 P: 423-337-2330 / F:

W/O. No.: USU001-02-04-78849-1
 P.O. No.: 0000949
 Report Date: 2/21/2005
 Date of Service: 2/25/2005

IZOD IMPACT RESISTANCE

Method: ASTM D256

Pendulum Impact at 11.3 ft./sec

| Sample | Impact Resistance (ft.lbf/in.) | Type of Failure |
|---------|-----------------------------------|-----------------|
| 1 | 0.78 | Partial |
| 2 | 0.91 | Partial |
| 3 | 0.97 | Partial |
| Average | 0.89 | --- |

COMPRESSIVE STRENGTH

Method: ASTM D695

Cylindrical Specimens

| Sample | Compressive Strength (psi) |
|--------|----------------------------|
| 1 | > 2,700 |
| 2 | > 3,405 |
| 3 | > 3,405 |
| 4 | > 2,955 |
| 5 | > 2,955 |

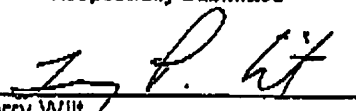
The material did not produce a well-defined failure. As cited in ASTM D695, many plastic materials will continue to deform in compression until a flat disk is produced, with compressive stress rising steadily in the process. Compressive strength can have no real meaning in such cases. For the material tested, using a 1,000 lb. load cell, testing was manually stopped near loads of 950 lbs. The cylinders exhibited flattening, but no failure. The compressive strength is a nominal value, based on the stress carried by the samples at the time the testing was stopped. It can be stated that the material exhibits a compressive strength > 3,000 psi.

TENSILE STRENGTH PROPERTIES

Method: ASTM D638

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 Sweetwater, TN 37874
 P: 423-337-2330 / F:

W/O. No.: USU001-02-04-78849-1
 P.O. No.: 0000949
 Report Date: 2/21/2005
 Date of Service: 2/25/2005

| Sample | Tensile Strength (psi) | Elongation |
|---------|---------------------------|------------|
| 1 | 665 | 9.8 % |
| 2 | 580 | 12.5 % |
| 3 | 535 | 10.0 % |
| 4 | 540 | 11.0 % |
| 5 | 670 | 9.5 % |
| Average | 590 | 10.5 % |

FLEXURAL PROPERTIES

Method: ASTM D790

| Sample | Flexural Modulus (psi) | Flexural Stress at 5% Strain (psi) |
|---------|---------------------------|---------------------------------------|
| 1 | 25,985 | 910 |
| 2 | 34,210 | 1,110 |
| 3 | 40,730 | 1,165 |
| 4 | 27,670 | 845 |
| 5 | 27,005 | 965 |
| Average | 31,120 | 1,000 |

Check parameters for modulus (limits)

A specimen is deflected either until rupture occurs or a maximum strain rate of 5% is reached. A calculation provided in D790 is used to determine the deflection at 5%. It is at that specific amount of midspan deflection that the flexural stress was reported.

WATER ABSORPTION

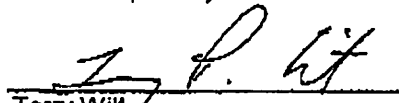
Method: ASTM D570

24 hour immersion

| Sample | Dry Weight (g) | Post Immersion Weight (g) | % Weight Increase |
|--------|----------------|---------------------------|-------------------|
| 1 | 20.373 | 20.408 | 0.17 % |

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W/O. No.: USU001-02-04-78849-1
 P.O. No.: 0000949
 Report Date: 2/21/2005
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| | | | |
|---------|--------|--------|--------|
| 2 | 21.244 | 21.284 | 0.19 % |
| 3 | 18.973 | 18.993 | 0.11 % |
| Average | --- | --- | 0.16 % |

VICAT SOFTENING TEMPERATURE

Method: ASTM D1525

| Sample # | Needle Penetration | VICAT Temperature |
|----------|--------------------|-------------------|
| 1 | 0.039" | 215°F |
| 2 | 0.039" | 185°F |

Peanut oil was used as the medium

DEFLECTION TEMPERATURE UNDER FLEXURAL LOAD

Method: ASTM D648

1.82 MPa (264 psi) Load

| Sample # | Deflection | Temperature |
|----------|------------|-------------|
| 1 | 0.01" | 225°F |
| 2 | 0.01" | 220°F |

Peanut oil was used as the medium

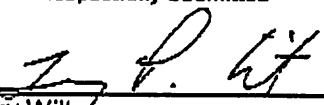
BURNING RATE

Method: ASTM D635

| Sample # | Burn Time (min:sec) |
|----------|------------------------|
| 1 | 15:30 |
| 2 | 9:30 |
| 3 | 11:00 |

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Attention: Paul Tannenbaum
 US UTILITY ENCLOSURES
 2230 Highway 11 North
 Sweetwater, TN 37874
 P: 423-337-2330 / F:

W/O. No.: USU001-02-04-78849-1
 P.O. No.: 0000949
 Report Date: 2/21/2005
 Date of Service: 2/25/2005

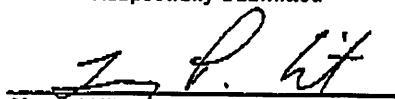
D635 states that if the sample burns from the 25mm mark to the 100mm mark, record time it takes for burn travel the distance. D635 also states that if the first 3 samples burn over the length of the specimen, to stop testing.

EVALUATING RESISTANCE TO CHEMICAL AGENTS**Method: ASTM D543**

| Solution | % Dimensional Change | % Weight Change | Visual Change |
|------------------------|---------------------------|-----------------|---|
| Kerosene 100% | 27.5% increase | 26.5% Increase | Slick feel, rough surface (like flake) |
| Transformer Oil | 3.3% increase | 3% increase | Slick feel, rough surface (like flake) |
| Sodium Chloride 5% | 0.32% increase | 0.15% increase | No change |
| Sodium Hydroxide 0.1N | 0.4% decrease (thickness) | 0.35% increase | No change |
| Sodium Sulfate 0.1N | 0.32% increase | 0.35% increase | No change |
| Sodium Carbonate 0.1N | 0.99% increase | 0.32% increase | No change |
| Hydrochloric Acid 0.2N | 0.07% increase | 0.33% increase | No change |

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Respectfully Submitted


 Terry Wilt
 Manager, Product Evaluation

Stork SWL is an operating unit of Stork Materials Technology B.V., Amsterdam, The Netherlands, which is a member of the Stork group

STORK®**SWL****SOUTHWESTERN LABORATORIES**

222 Cavalcade Street, 77009-3213
 P.O. Box 8768, Houston, Texas 77249-8768
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Attention: Paul Tannenbaum
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 2230 Highway 11 North
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 P:423-337-2330 / F:

W/O. No.: USU001-03-09-80997-1
 P.O. No.: 0000949
 Report Date: 3/11/2005

IZOD IMPACT RESISTANCE

Method: ASTM D256

Pendulum Impact at 11.3 ft./sec

With 0.13 diameter tup

| Sample | Impact Resistance (ft.lbf/in.) | Type of Failure |
|---------|-----------------------------------|-----------------|
| 1 | 4.15 | Partial |
| 2 | 3.98 | Partial |
| 3 | 4.14 | Partial |
| Average | 4.09 | --- |

IZOD IMPACT RESISTANCE

Method: ASTM D256

Pendulum Impact at 11.3 ft./sec

With striker edge

| Sample | Impact Resistance (ft.lbf/in.) | Type of Failure |
|---------|-----------------------------------|-----------------|
| 1 | 5.96 | Partial |
| 2 | 5.29 | Partial |
| 3 | 4.37 | Partial |
| Average | 5.21 | --- |

BRITTLENESS TEMPERATURE

Method: ASTM D746

Type I specimens

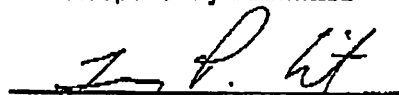
| Lowest temperature |
|--------------------|
| -34°F |

5 successive samples did not break or crack upon impact at -34°F, which establishes the brittle point temperature. Methanol and CO₂ chips were used to maintain temperature. Samples rested at temperature for 3 minutes prior to impact.

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COMPRESSIVE STRENGTH

Method: ASTM D695

Cylindrical Specimens

| Sample | Compressive Strength (psi) |
|--------|----------------------------|
| 1 | > 2,700 |
| 2 | > 3,405 |
| 3 | > 3,405 |
| 4 | > 2,955 |
| 5 | > 2,955 |

The material did not produce a well-defined failure. As cited in ASTM D695, many plastic materials will continue to deform in compression until a flat disk is produced, with compressive stress rising steadily in the process. Compressive strength can have no real meaning in such cases. For the material tested, using a 1,000 lb. load cell, testing was manually stopped near loads of 950 lbs. The cylinders exhibited flattening, but no failure. The compressive strength is a nominal value, based on the stress carried by the samples at the time the testing was stopped. It can be stated that the material exhibits a compressive strength > 3,000 psi.

VICAT SOFTENING TEMPERATURE

Method: ASTM D1525

| Sample # | Needle Penetration | VICAT Temperature |
|----------|--------------------|-------------------|
| 1 | 0.039" | 215°F |
| 2 | 0.039" | 185°F |

Peanut oil was used as the medium

DEFLECTION TEMPERATURE UNDER FLEXURAL LOAD

Method: ASTM D648

1.82 MPa (264 psi) Load

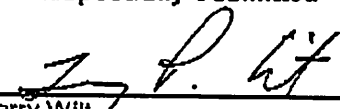
| Sample # | Deflection | Temperature |
|----------|------------|-------------|
| 1 | 0.01" | 225°F |
| 2 | 0.01" | 220°F |

Peanut oil was used as the medium

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BURNING RATE
Method: ASTM D635

| Sample # | Burn Time (min:sec) |
|----------|---------------------|
| 1 | 15:30 |
| 2 | 9:30 |
| 3 | 11:00 |

D635 states that if the sample burns from the 25mm mark to the 100mm mark, record time it takes for burn to travel the distance. D635 also states that if the first 3 samples burn over the length of the specimen, to stop testing.

EVALUATING RESISTANCE TO CHEMICAL AGENTS
Method: ASTM D543

| Solution | % Dimensional Change | % Weight Change | Visual Change |
|------------------------|---------------------------|-----------------|---|
| Kerosene 100% | 27.5% increase | 26.5% increase | Slick feel, rough surface (like flakes) |
| Transformer Oil | 3.3% increase | 3% increase | Slick feel, rough surface (like flakes) |
| Automotive Motor oil | 2.4% increase | 1.6% increase | Slick feel, rough surface (like flakes) |
| Sodium Chloride 5% | 0.32% increase | 0.15% increase | No change |
| Sodium Hydroxide 0.1N | 0.4% decrease (thickness) | 0.35% increase | No change |
| Sodium Sulfate 0.1N | 0.32% increase | 0.35% increase | No change |
| Sodium Carbonate 0.1N | 0.99% increase | 0.32% increase | No change |
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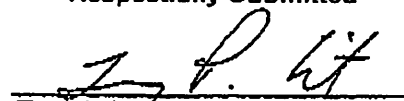
WATER ABSORPTION
Method: ASTM D570
24 hour immersion

| Sample | Dry Weight (g) | Post Immersion Weight (g) | % Weight Increase |
|---------|----------------|---------------------------|-------------------|
| 1 | 20.373 | 20.408 | 0.17 % |
| 2 | 21.244 | 21.284 | 0.19 % |
| 3 | 18.973 | 18.993 | 0.11 % |
| Average | --- | --- | 0.16 % |

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