

# Instron Application Laboratory

Company:

Name: 150Big1

Lab name: WPI Structures Lab

Number of specimens: 1

Operator ID:

Temperature:

Test date: 2/25/08

Humidity:

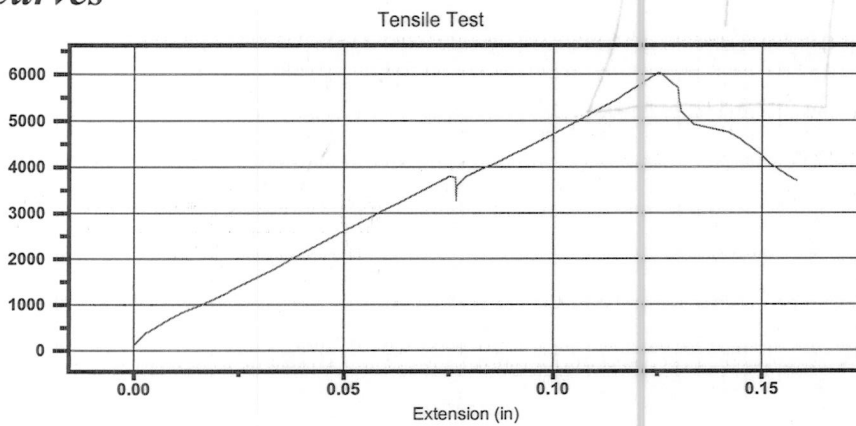
Note 1:

Speed 1: 0.50 in/min

## Results

	Maximum Load (lbf)	Extension (in)
1	6037.55	0.13
Mean	6037.55	0.13
S.D.	0.00	0.00
C.V.	0.00	0.00
Minimum	6037.55	0.13
Maximum	6037.55	0.13
Range	0.00	0.00

## Curves



# Instron Application Laboratory

Company:

Name: 150Big2

Lab name: WPI Structures Lab

Number of specimens: 1

Operator ID:

Temperature:

Test date: 2/25/08

Humidity:

Note 1:

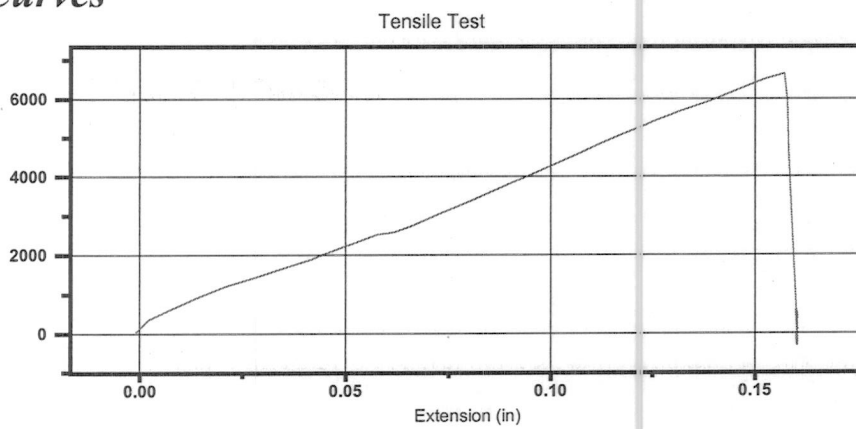
Speed 1: 0.50 in/min

*Block Brake*

## Results

	Maximum Load (lbf)	Extension (in)
1	6646.03	0.16
Mean	6646.03	0.16
S.D.	0.00	0.00
C.V.	0.00	0.00
Minimum	6646.03	0.16
Maximum	6646.03	0.16
Range	0.00	0.00

## Curves



# Instron Application Laboratory

Company:

Name: 150Big3

Lab name: WPI Structures Lab

Number of specimens: 1

Operator ID:

Temperature:

Test date: 2/25/08

Humidity:

Note 1:

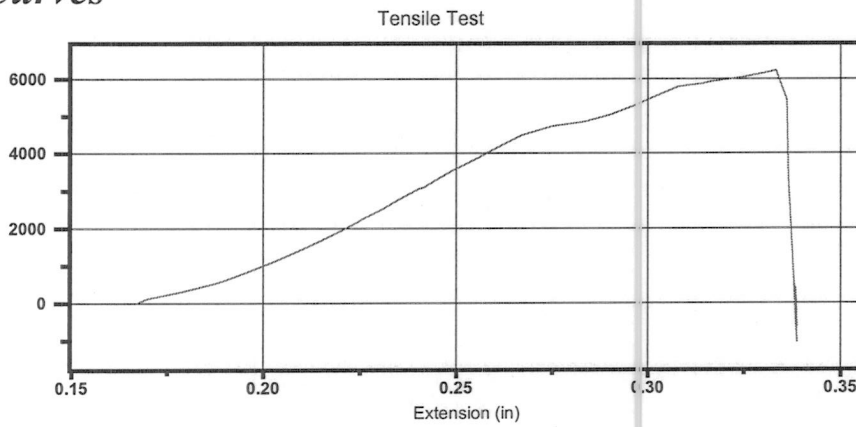
Speed 1: 0.50 in/min

*Block Broke*

## Results

	Maximum Load (lbf)	Extension (in)
1	6229.01	0.33
Mean	6229.01	0.33
S.D.	0.00	0.00
C.V.	0.00	0.00
Minimum	6229.01	0.33
Maximum	6229.01	0.33
Range	0.00	0.00

## Curves



# Instron Application Laboratory

Company:

Name: 150Big4

Lab name: WPI Structures Lab

Number of specimens: 1

Operator ID:

Temperature:

Test date: 2/25/08

Humidity:

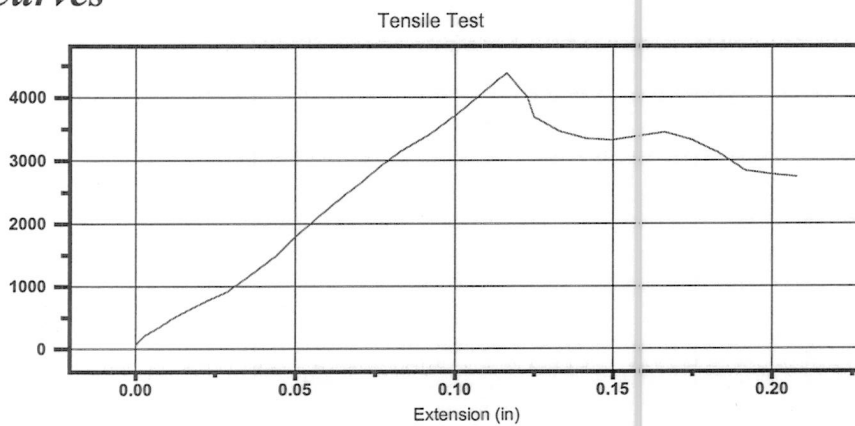
Note 1:

Speed 1: 0.50 in/min

## Results

	Maximum Load (lbf)	Extension (in)
1	4375.18	0.12
Mean	4375.18	0.12
S.D.	0.00	0.00
C.V.	0.00	0.00
Minimum	4375.18	0.12
Maximum	4375.18	0.12
Range	0.00	0.00

## Curves



# Instron Application Laboratory

Company:

Name: 150Big5

Lab name: WPI Structures Lab

Number of specimens: 1

Operator ID:

Temperature:

Test date: 2/25/08

Humidity:

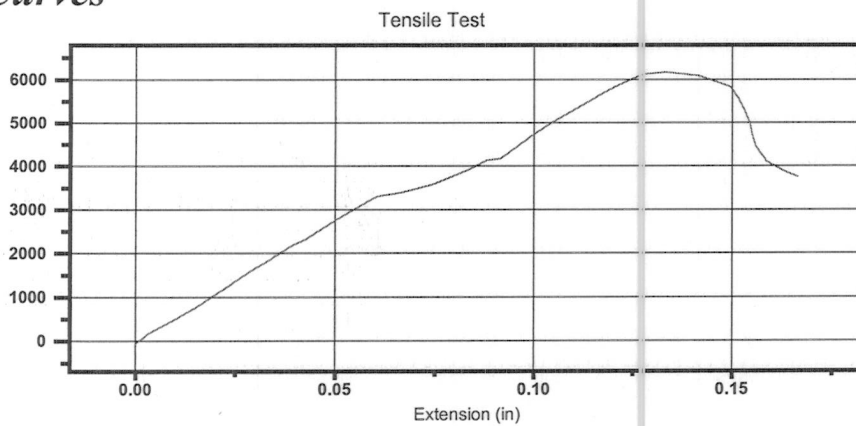
Note 1:

Speed 1: 0.50 in/min

## Results

	Maximum Load (lbf)	Extension (in)
1	6168.65	0.13
Mean	6168.65	0.13
S.D.	0.00	0.00
C.V.	0.00	0.00
Minimum	6168.65	0.13
Maximum	6168.65	0.13
Range	0.00	0.00

## Curves



# Instron Application Laboratory

Company:

Name: 150Big6

Lab name: WPI Structures Lab

Number of specimens: 1

Operator ID:

Temperature:

Test date: 2/25/08

Humidity:

Note 1:

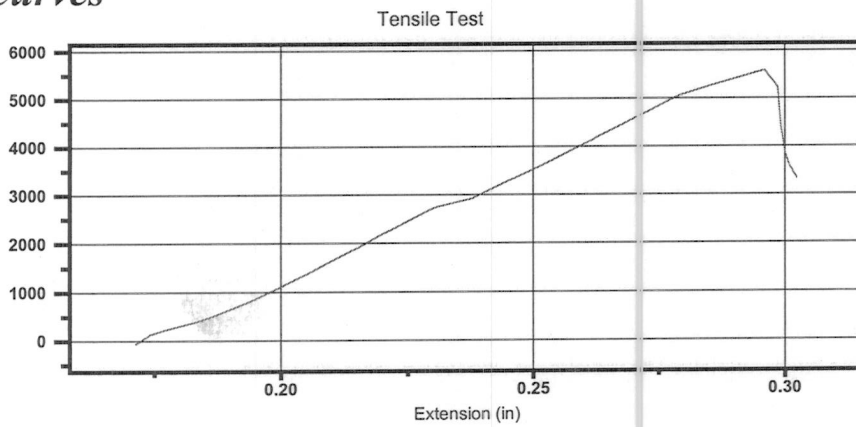
Speed 1: 0.50 in/min

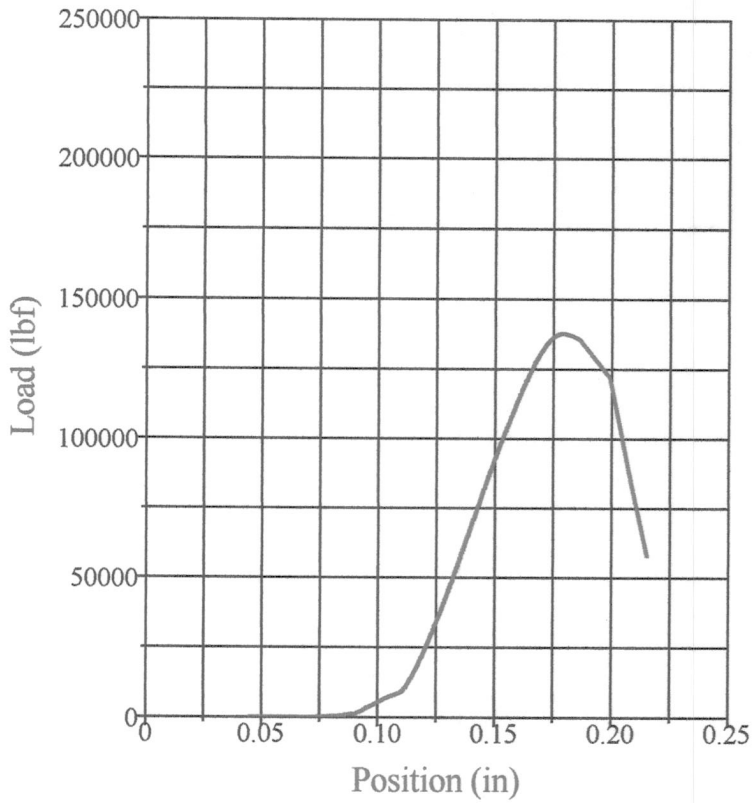
## Results

	Maximum Load (lbf)	Extension (in)
1	5583.12	0.30
Mean	5583.12	0.30
S.D.	0.00	0.00
C.V.	0.00	0.00
Minimum	5583.12	0.30
Maximum	5583.12	0.30
Range	0.00	0.00

0.30  
Broke Block

## Curves





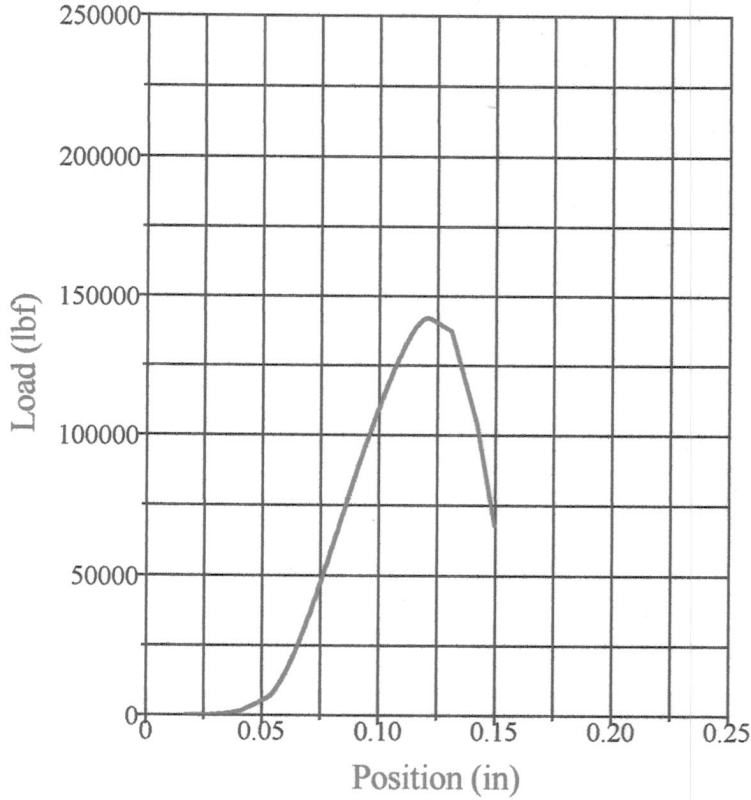
**Test Results**

Diameter: **6.0000 in**  
 Area: **28.2743 in<sup>2</sup>**  
 Peak Load: **137644 lbf**  
 Compressive Strength: **4868 psi**

**Test Summary**

Counter: **1048**  
 Elapsed Time: **00:03:16**  
 Specimen Identification: **1**  
 Material: **Concrete**  
 Comments:  
 Procedure Name: **6x12ConcreteCyl.-1PRC**  
 Start Date: **01/30/2008**  
 Start Time: **7:06:55 AM**  
 End Date: **01/30/2008**  
 End Time: **7:10:11 AM**  
 Workstation: **Worcester Polytechnic Inst**  
 Tested By: **default**

*48 days cured*



### Test Results

Diameter: **6.0000 in**  
 Area: **28.2743 in<sup>2</sup>**  
 Peak Load: **142021 lbf**  
 Compressive Strength: **5023 psi**

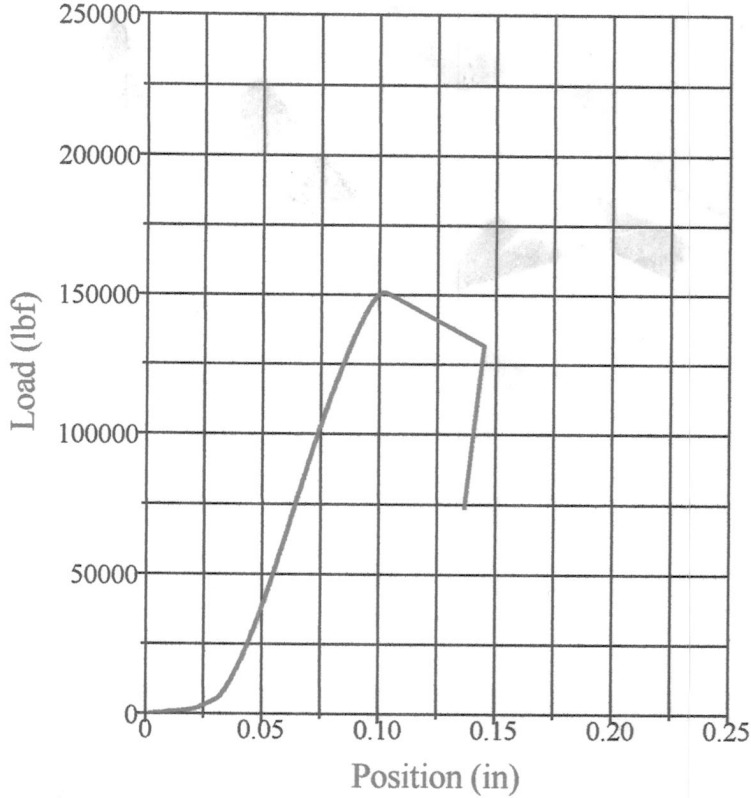
### Test Summary

Counter: **1049**  
 Elapsed Time: **00:03:22**  
 Specimen Identification: **2**  
 Material: **Concrete**  
 Comments:  
 Procedure Name: **6x12ConcreteCyl.-1PRC**  
 Start Date: **01/30/2008**  
 Start Time: **7:11:36 AM**  
 End Date: **01/30/2008**  
 End Time: **7:14:58 AM**  
 Workstation: **Worcester Polytechnic Inst**  
 Tested By: **default**



### Test Results

Diameter: 6.0000 in  
Area: 28.2743 in<sup>2</sup>  
Peak Load: 150855 lbf  
Compressive Strength: 5335 psi

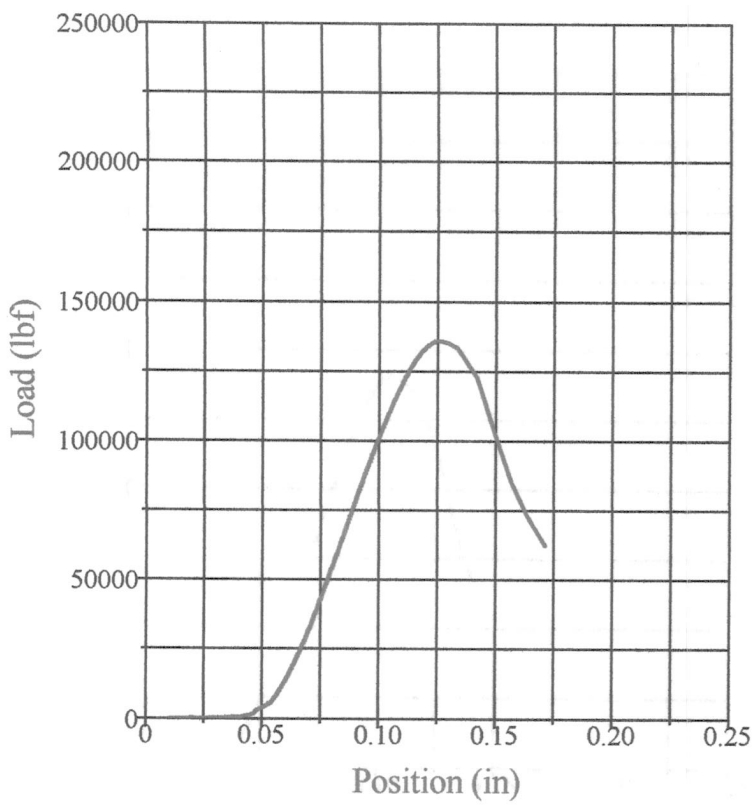


### Test Summary

Counter: 1050  
Elapsed Time: 00:03:35  
Specimen Identification: 3  
Material: Concrete  
Comments:  
Procedure Name: 6x12ConcreteCyl.-1PRC  
Start Date: 01/30/2008  
Start Time: 7:17:15 AM  
End Date: 01/30/2008  
End Time: 7:20:50 AM  
Workstation: Worcester Polytechnic Inst  
Tested By: default

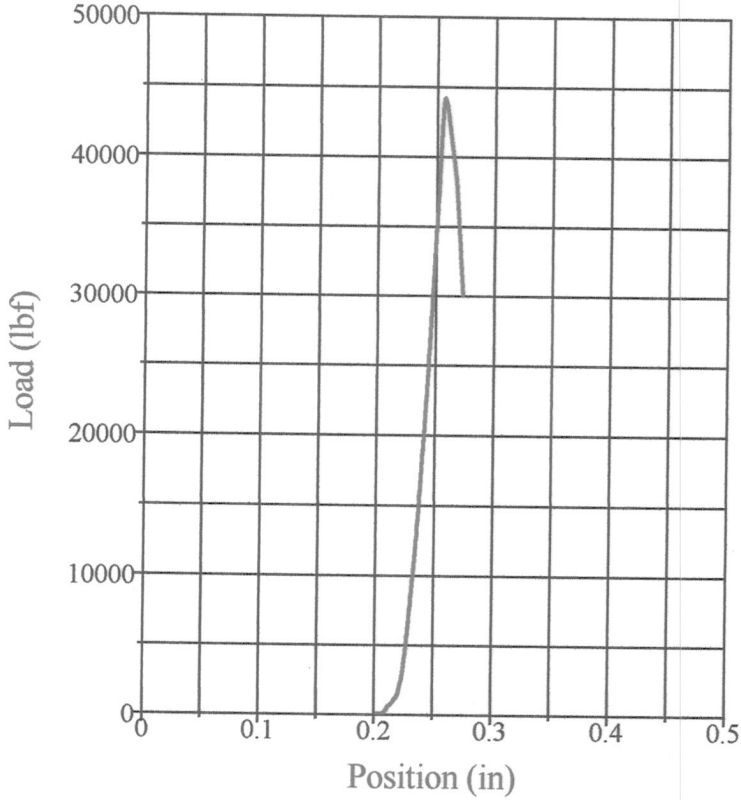
### Test Results

Diameter: **6.0000 in**  
Area: **28.2743 in<sup>2</sup>**  
Peak Load: **135896 lbf**  
Compressive Strength: **4806 psi**



### Test Summary

Counter: **1051**  
Elapsed Time: **00:03:14**  
Specimen Identification: **4**  
Material: **Concrete**  
Comments:  
Procedure Name: **6x12ConcreteCyl.-1PRC**  
Start Date: **01/30/2008**  
Start Time: **7:22:47 AM**  
End Date: **01/30/2008**  
End Time: **7:26:01 AM**  
Workstation: **Worcester Polytechnic Inst**  
Tested By: **default**



### Test Results

Diameter: 6.0000 in  
Area: 28.2743 in<sup>2</sup>  
Peak Load: 44208 lbf

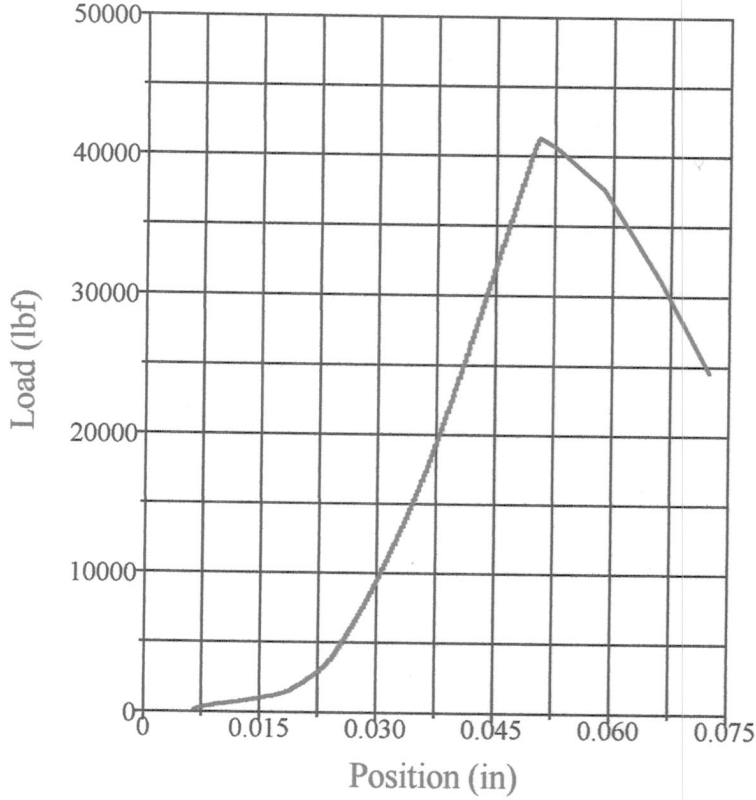
### Test Summary

Counter: 1088  
Elapsed Time: 00:02:58  
Material: concrete  
Lab:  
Sample:  
Specimen Identification: Split-1  
Procedure Name: dpel.Concrete Split Tensile  
Start Date: 02/08/2008  
Start Time: 7:24:00 AM  
End Date: 02/08/2008  
End Time: 7:26:58 AM  
Workstation: Worcester Polytechnic Inst  
Tested By: default

57 days cured

### Test Results

Diameter: **6.0000 in**  
Area: **28.2743 in<sup>2</sup>**  
Peak Load: **41262 lbf**

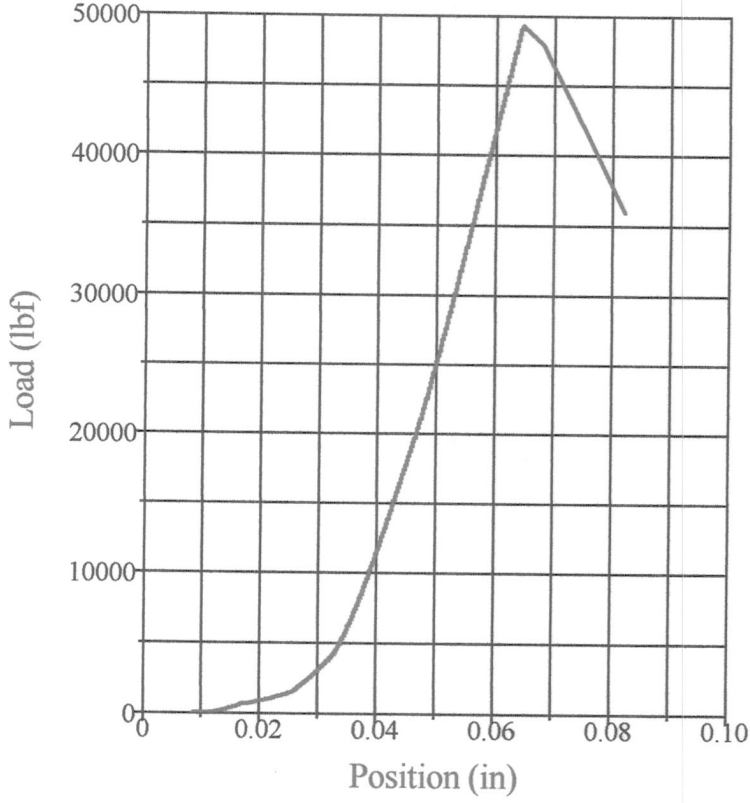


### Test Summary

Counter: **1089**  
Elapsed Time: **00:02:45**  
Material: **Concrete**  
Lab:  
Sample: **Hilti Split-2**  
Specimen Identification:  
Procedure Name: **dpel.Concrete Split Tensile**  
Start Date: **02/08/2008**  
Start Time: **7:29:52 AM**  
End Date: **02/08/2008**  
End Time: **7:32:37 AM**  
Workstation: **Worcester Polytechnic Inst**  
Tested By: **default**

### Test Results

Diameter: **6.0000 in**  
Area: **28.2743 in<sup>2</sup>**  
Peak Load: **49307 lbf**

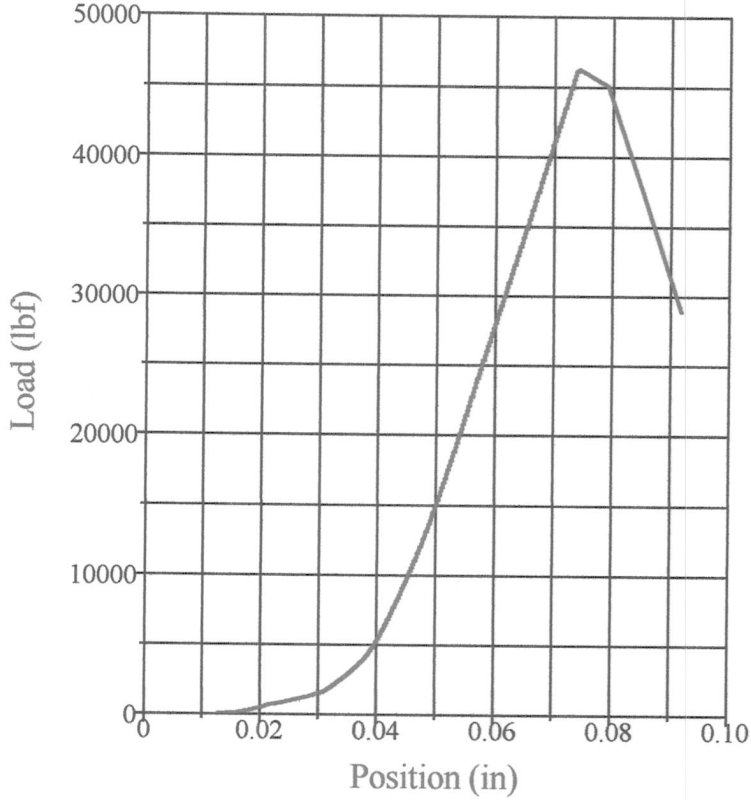


### Test Summary

Counter: **1090**  
Elapsed Time: **00:03:18**  
Material: **Concrete**  
Lab:  
Sample: **Hilti Split 3**  
Specimen Identification:  
Procedure Name: **dpel.Concrete Split Tensile**  
Start Date: **02/08/2008**  
Start Time: **7:35:11 AM**  
End Date: **02/08/2008**  
End Time: **7:38:29 AM**  
Workstation: **Worcester Polytechnic Inst**  
Tested By: **default**

### Test Results

Diameter: **6.0000 in**  
Area: **28.2743 in<sup>2</sup>**  
Peak Load: **46261 lbf**

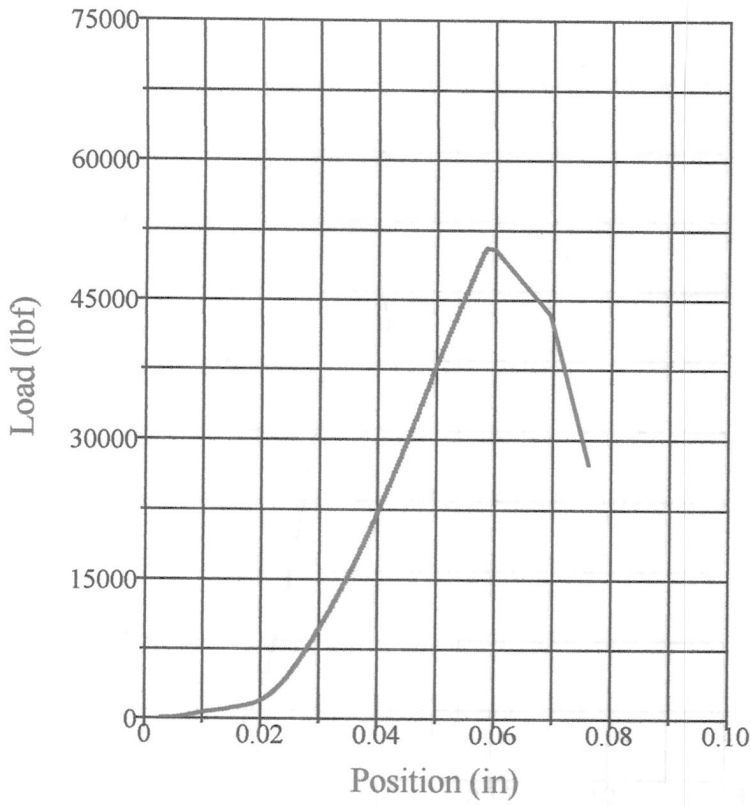


### Test Summary

Counter: **1091**  
Elapsed Time: **00:03:05**  
Material: **Concrete**  
Lab:  
Sample: **Hilti Split 4**  
Specimen Identification:  
Procedure Name: **dpel.Concrete Split Tensile**  
Start Date: **02/08/2008**  
Start Time: **7:40:57 AM**  
End Date: **02/08/2008**  
End Time: **7:44:02 AM**  
Workstation: **Worcester Polytechnic Inst**  
Tested By: **default**

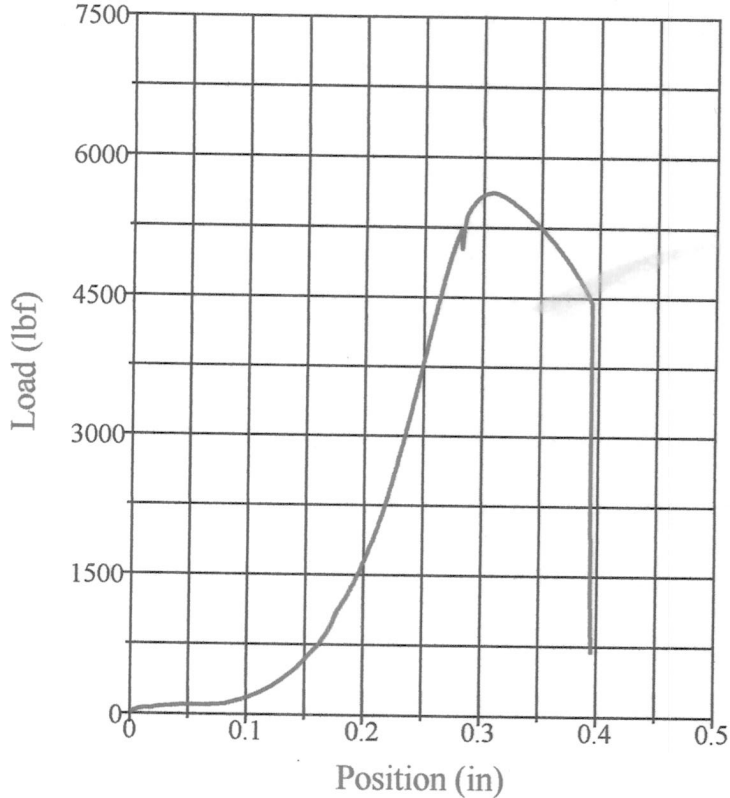
### Test Results

Diameter: 6.0000 in  
Area: 28.2743 in<sup>2</sup>  
Peak Load: 50625 lbf



### Test Summary

Counter: 1092  
Elapsed Time: 00:03:23  
Material: Concretet  
Lab:  
Sample: Hilti Split 5  
Specimen Identification:  
Procedure Name: dpel.Concrete Split Tensile  
Start Date: 02/08/2008  
Start Time: 7:46:24 AM  
End Date: 02/08/2008  
End Time: 7:49:47 AM  
Workstation: Worcester Polytechnic Inst  
Tested By: default



**Test Results**

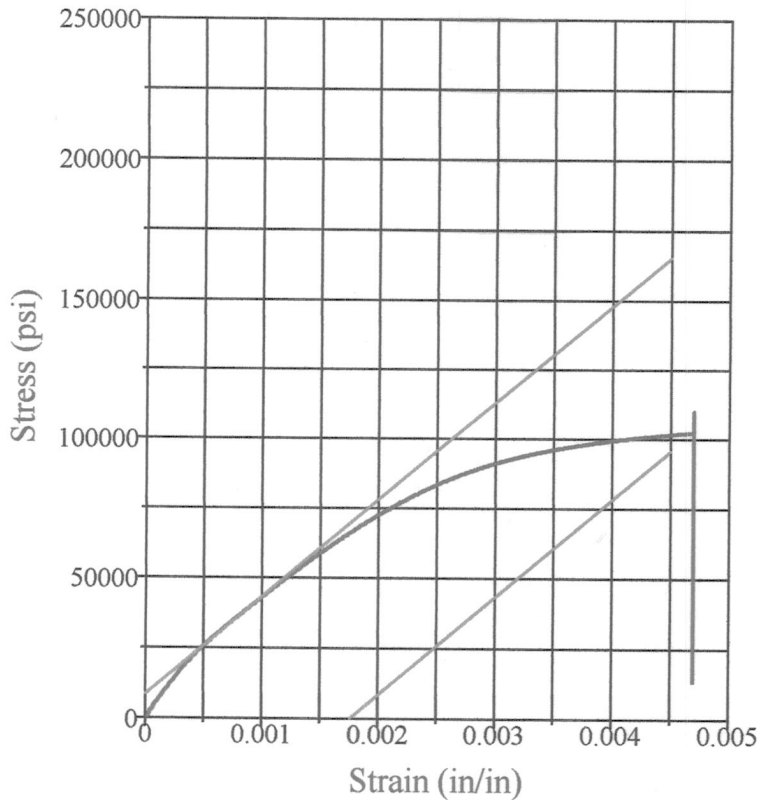
Diameter: 0.2550 in  
 Area: 0.0511 in<sup>2</sup>  
 Tensile Strength: 109980 psi  
 Peak Load: 5620 lbf  
 Stress at Offset: 102300 psi  
 Load at Offset: 5227 lbf  
 Tangent Modulus: 34879780 psi

necking => .181 ~~to~~ .190

**Test Summary**

Counter: 1142  
 Elapsed Time: 00:01:38  
 Predicted Yield Strength: 60000 psi  
 Specimen Identification: St1  
 Material: Steel  
 Procedure Name: dpel steel Ext  
 Start Date: 02/25/2008  
 Start Time: 2:12:39 PM  
 End Date: 02/25/2008  
 End Time: 2:14:17 PM  
 Workstation: Worcester Polytechnic Ins  
 Tested By: default



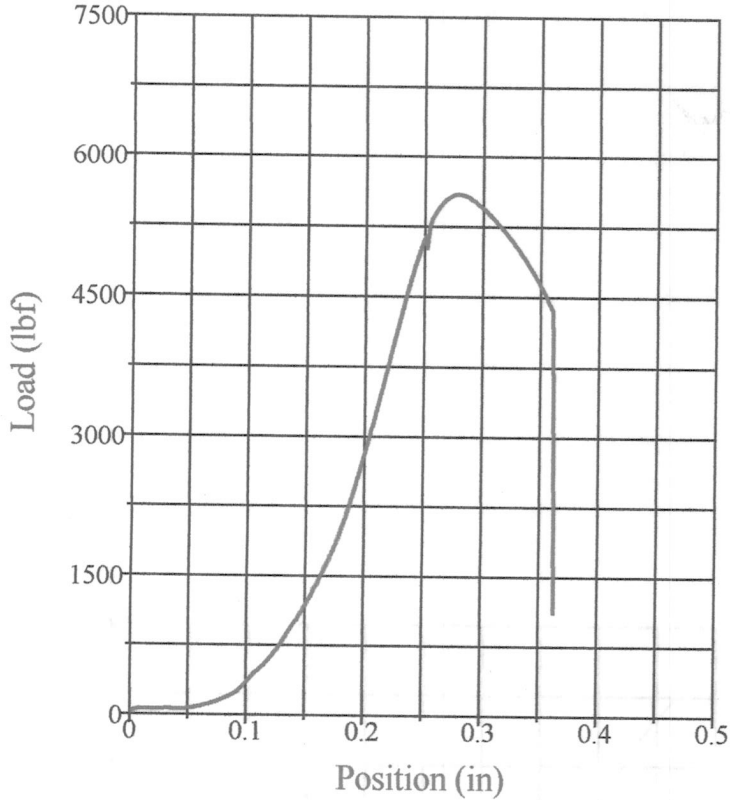


### Test Results

Diameter: **0.2550 in**  
 Area: **0.0511 in<sup>2</sup>**  
 Tensile Strength: **109980 psi**  
 Peak Load: **5620 lbf**  
 Stress at Offset: **102300 psi**  
 Load at Offset: **5227 lbf**  
 Tangent Modulus: **34879780 psi**

### Test Summary

Counter: **1142**  
 Elapsed Time: **00:01:38**  
 Predicted Yield Strength: **60000 psi**  
 Specimen Identification: **St1**  
 Material: **Steel**  
 Procedure Name: **dpel steel Ext**  
 Start Date: **02/25/2008**  
 Start Time: **2:12:39 PM**  
 End Date: **02/25/2008**  
 End Time: **2:14:17 PM**  
 Workstation: **Worcester Polytechnic Ins**  
 Tested By: **default**



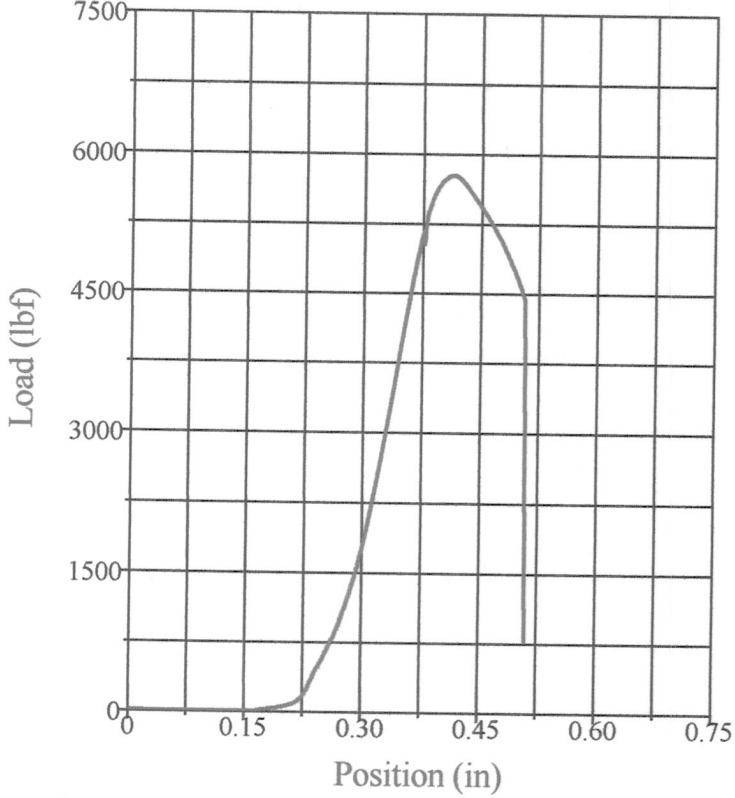
### Test Results

Diameter: **0.2400 in**  
 Area: **0.0452 in<sup>2</sup>**  
 Tensile Strength: **123739 psi**  
 Peak Load: **5593 lbf**  
 Stress at Offset: **113940 psi**  
 Load at Offset: **5150 lbf**  
 Tangent Modulus: **32429870 psi**

necking ⇒ 1188 ~~05~~ .183

### Test Summary

Counter: **1143**  
 Elapsed Time: **00:01:34**  
 Predicted Yield Strength: **60000 psi**  
 Specimen Identification: **ST 2**  
 Material: **Steel**  
 Procedure Name: **dpel steel Ext**  
 Start Date: **02/25/2008**  
 Start Time: **2:21:20 PM**  
 End Date: **02/25/2008**  
 End Time: **2:22:54 PM**  
 Workstation: **Worcester Polytechnic Ins**  
 Tested By: **default**



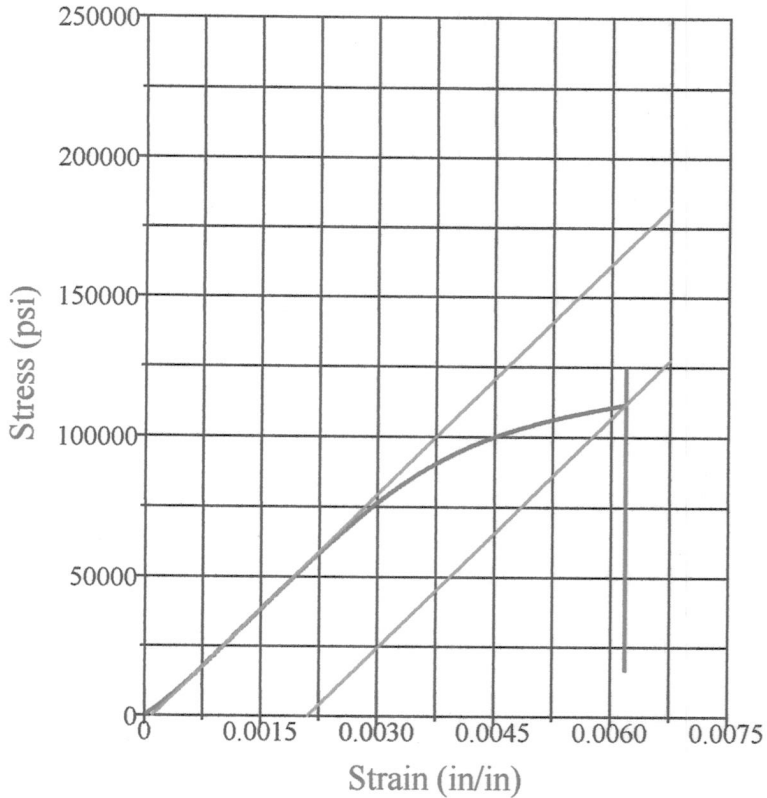
### Test Results

Diameter: **0.2430 in**  
 Area: **0.0464 in<sup>2</sup>**  
 Tensile Strength: **124418 psi**  
 Peak Load: **5773 lbf**  
 Stress at Offset: **111560 psi**  
 Load at Offset: **5176 lbf**  
 Tangent Modulus: **27409020 psi**

201 / 200

### Test Summary

Counter: **1144**  
 Elapsed Time: **00:01:45**  
 Predicted Yield Strength: **60000 psi**  
 Specimen Identification: **ST-3**  
 Material: **Steel**  
 Procedure Name: **dpel steel Ext**  
 Start Date: **02/25/2008**  
 Start Time: **2:28:34 PM**  
 End Date: **02/25/2008**  
 End Time: **2:30:19 PM**  
 Workstation: **Worcester Polytechnic Ins**  
 Tested By: **default**

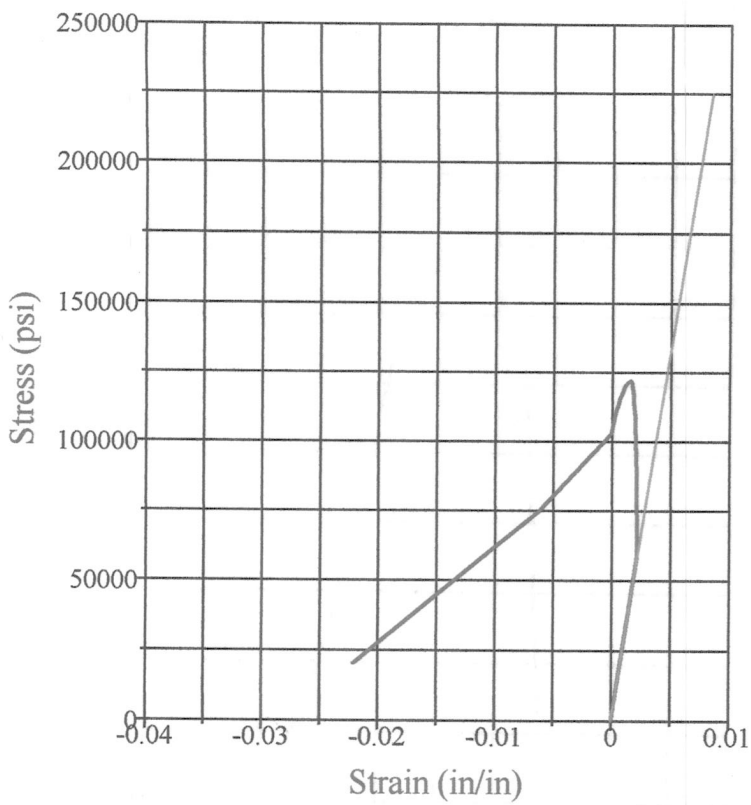


### Test Results

Diameter: **0.2430 in**  
 Area: **0.0464 in<sup>2</sup>**  
 Tensile Strength: **124418 psi**  
 Peak Load: **5773 lbf**  
 Stress at Offset: **111560 psi**  
 Load at Offset: **5176 lbf**  
 Tangent Modulus: **27409020 psi**

### Test Summary

Counter: **1144**  
 Elapsed Time: **00:01:45**  
 Predicted Yield Strength: **60000 psi**  
 Specimen Identification: **ST-3**  
 Material: **Steel**  
 Procedure Name: **dpel steel Ext**  
 Start Date: **02/25/2008**  
 Start Time: **2:28:34 PM**  
 End Date: **02/25/2008**  
 End Time: **2:30:19 PM**  
 Workstation: **Worcester Polytechnic Ins**  
 Tested By: **default**



**Test Results**

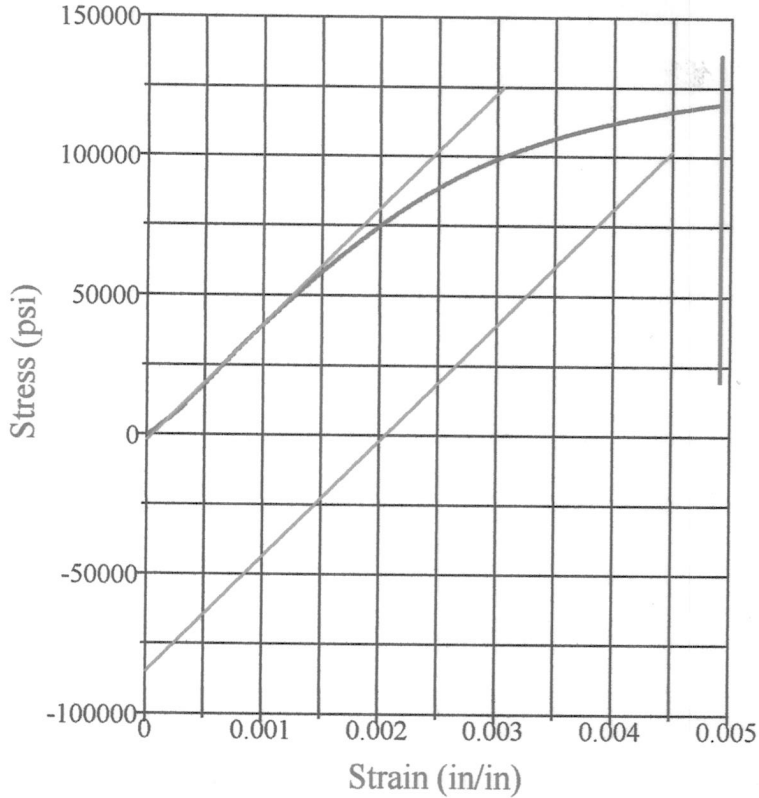
Diameter: 0.2460 in  
 Area: 0.0475 in<sup>2</sup>  
 Tensile Strength: 121853 psi  
 Peak Load: 5788 lbf  
 Stress at Offset: Failed  
 Load at Offset: Failed  
 Tangent Modulus: 26412250 psi

*thing slipped*

*1197 / .192*

**Test Summary**

Counter: 1145  
 Elapsed Time: 00:00:30  
 Predicted Yield Strength: 60000 psi  
 Specimen Identification: ST-4  
 Material: Steel  
 Procedure Name: dpel steel Ext  
 Start Date: 02/25/2008  
 Start Time: 2:36:36 PM  
 End Date: 02/25/2008  
 End Time: 2:37:06 PM  
 Workstation: Worcester Polytechnic Ins  
 Tested By: default



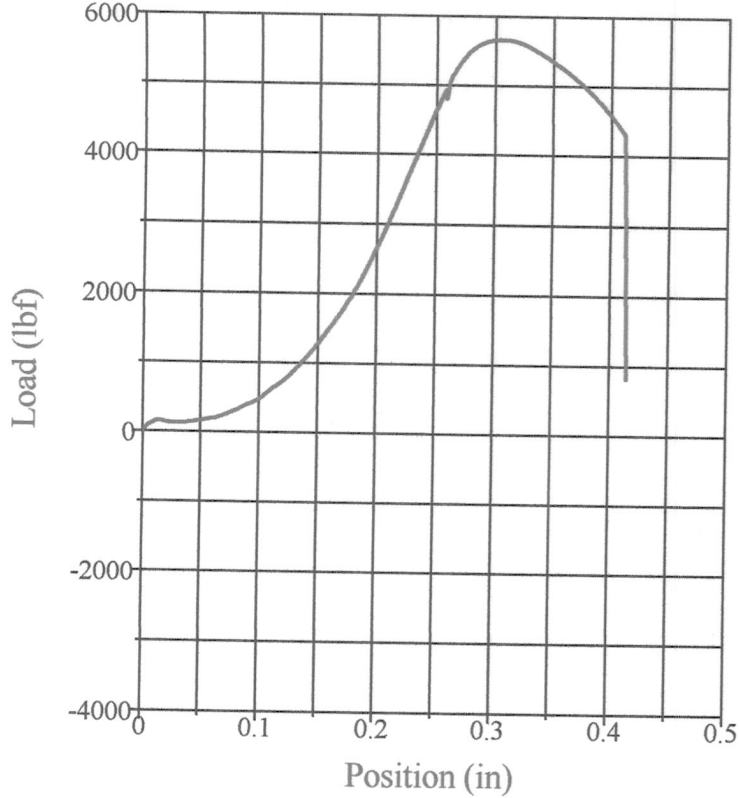
**Test Results**

Diameter: **0.2300** in  
 Area: **0.0415** in<sup>2</sup>  
 Tensile Strength: **136482** psi  
 Peak Load: **5664** lbf  
 Stress at Offset: **118960** psi  
 Load at Offset: **4937** lbf  
 Tangent Modulus: **41564330** psi

*.185 / .192*

**Test Summary**

Counter: **1147**  
 Elapsed Time: **00:01:29**  
 Predicted Yield Strength: **60000** psi  
 Specimen Identification: **St-6**  
 Material: **Steel**  
 Procedure Name: **dpel steel Ext**  
 Start Date: **02/25/2008**  
 Start Time: **2:51:56 PM**  
 End Date: **02/25/2008**  
 End Time: **2:53:25 PM**  
 Workstation: **Worcester Polytechnic Ins**  
 Tested By: **default**



### Test Results

Diameter: **0.2300 in**  
 Area: **0.0415 in<sup>2</sup>**  
 Tensile Strength: **136482 psi**  
 Peak Load: **5664 lbf**  
 Stress at Offset: **118960 psi**  
 Load at Offset: **4937 lbf**  
 Tangent Modulus: **41564330 psi**

### Test Summary

Counter: **1147**  
 Elapsed Time: **00:01:29**  
 Predicted Yield Strength: **60000 psi**  
 Specimen Identification: **St-6**  
 Material: **Steel**  
 Procedure Name: **dpel steel Ext**  
 Start Date: **02/25/2008**  
 Start Time: **2:51:56 PM**  
 End Date: **02/25/2008**  
 End Time: **2:53:25 PM**  
 Workstation: **Worcester Polytechnic Ins**  
 Tested By: **default**