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June 7, 2021
 Lab No. 21P-2250
 Invoice No. INSTL8361
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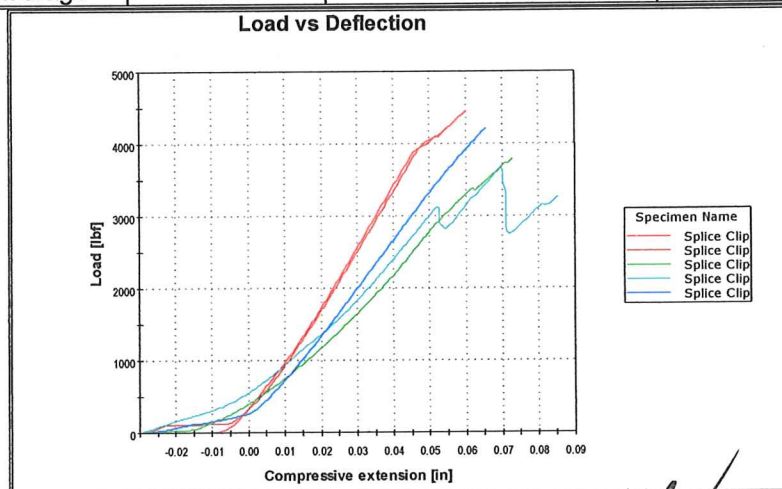
Attention: Ghislain Beauregard

REPORT OF MECHANICAL TEST

SAMPLE ID: TC 35 Tee Channel: Pultruded Resin with Extruded Grade K, Type 2 virgin PVC, UL 94 V-O Certified

SUBJECT: Splice Clip Compressive Test
METHOD: ASTM D695-15 (Modified, Samples Tested in Finished Form)
INSTRUMENT: Instron 5500R with Bluehill software
RESULTS:

Specimen #	Load @ Yield (lbf)	Compressive Extension At Yield (in)	Failure Mode
1	3941	0.047	Material Yield
2	3971	0.048	
3	3362	0.062	
4	3097	0.053	
5	3849	0.059	
Average	3644	0.054	




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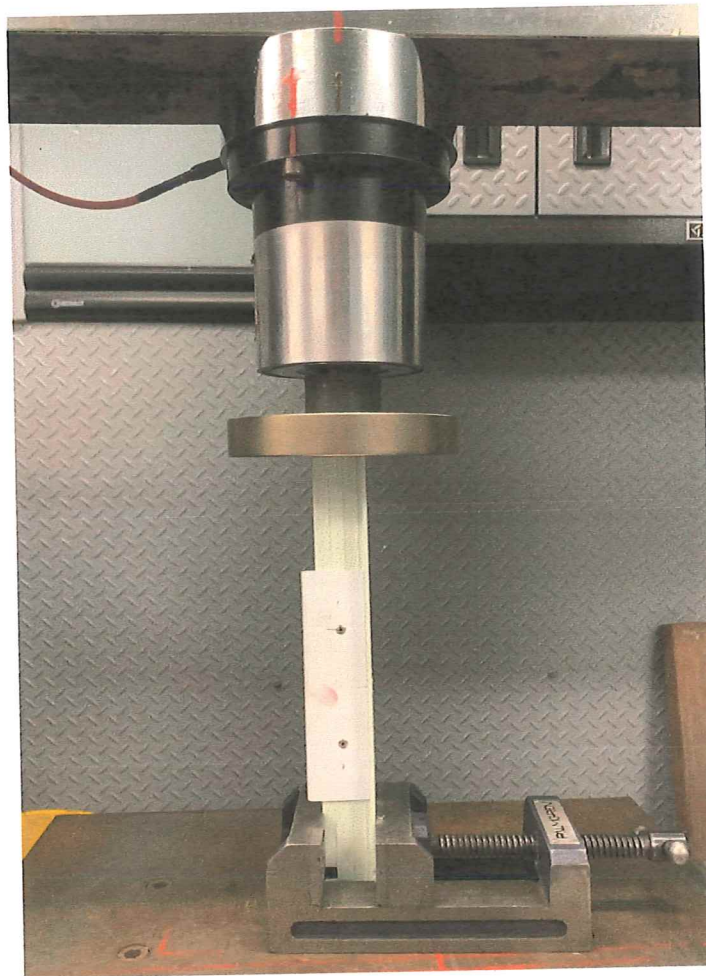
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REPORT OF MECHANICAL TEST



Splice Clip Compressive Test


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REPORT OF MECHANICAL TEST

SAMPLE ID: TC 35 Tee Channel: Pultruded Resin with Extruded Grade K, Type 2 virgin PVC, UL 94 V-O Certified

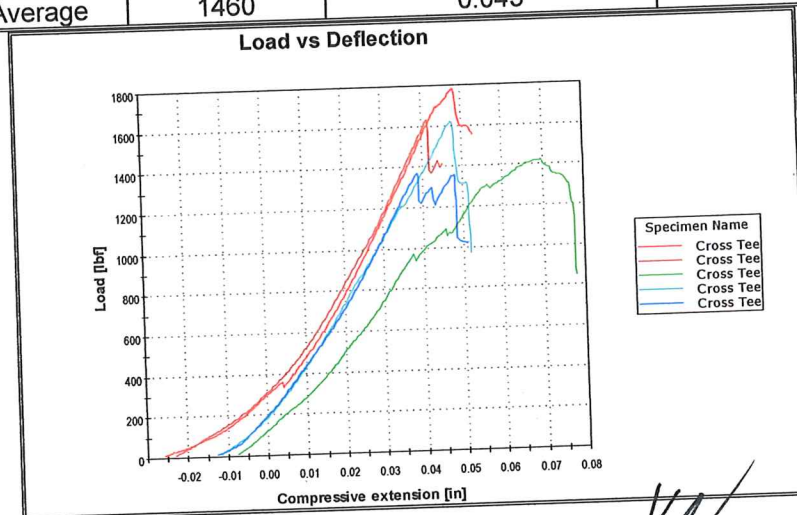
SUBJECT: Cross Tee Clip System Compressive Test

METHOD: ASTM D695-15 (Modified, Samples Tested in Finished Form)

INSTRUMENT: Instron 5500R with Bluehill software

RESULTS:

Specimen #	Load @ Yield (lbf)	Compressive Extension At Yield (in)	Failure Mode
1	1716	0.045	Material Yield
2	1601	0.042	
3	1022	0.042	
4	1609	0.048	
5	1353	0.039	
Average	1460	0.043	



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REPORT OF MECHANICAL TEST



Cross Tee Clip System Compressive Test

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REPORT OF MECHANICAL TEST

SAMPLE ID: TC 35 Tee Channel: Pultruded Resin with Extruded Grade K,
Type 2 virgin PVC, UL 94 V-O Certified

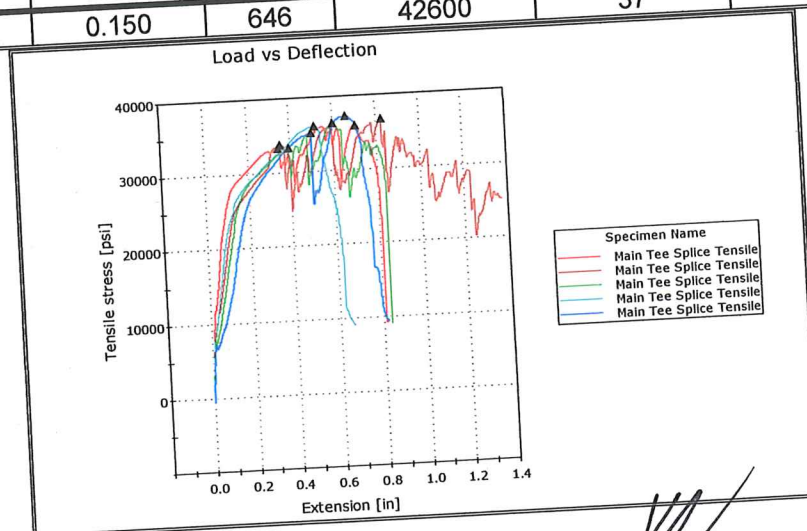
SUBJECT: Splice Clip Pull-Apart Test

METHOD: ASTM D953-10 (Modified, Samples Tested in Finished Form)

INSTRUMENT: Instron 5500R with Bluehill software

RESULTS:

Specimen #	Thickness (in)	Bearing Hole Diameter (in)	Max Load (lbf)	Ultimate Bearing Strength (psi)	Load at Bearing Strength 4% Strain (lbf)	Bearing Strength (psi)	Failure Mode
1	0.095	0.150	638	41000	48	3400	PVC at Rivet
2	0.095	0.150	650	42000	40	2800	
3	0.095	0.150	644	41000	33	2300	
4	0.095	0.150	640	45000	38	2700	
5	0.095	0.150	660	44000	24	1700	
Average	0.095	0.150	646	42600	37	2580	



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REPORT OF MECHANICAL TEST



Splice Clip Pull-Apart Test

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REPORT OF MECHANICAL TEST

SAMPLE ID: TC 35 Tee Channel: Pultruded Resin with Extruded Grade K,
Type 2 virgin PVC, UL 94 V-O Certified

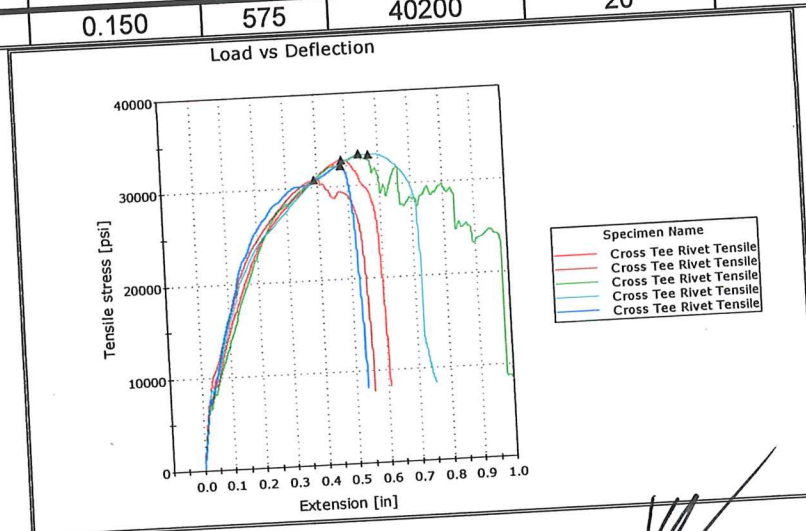
SUBJECT: Cross Tee Clip System Pull-Apart Test

METHOD: ASTM D953-10 (Modified, Samples Tested in Finished Form)

INSTRUMENT: Instron 5500R with Bluehill software

RESULTS:

Specimen #	Thickness (in)	Bearing Hole Diameter (in)	Max Load (lbf)	Ultimate Bearing Strength (psi)	Load at Bearing Strength 4% Strain (lbf)	Bearing Strength (psi)	Failure Mode
1	0.095	0.150	580	41000	22	1600	PVC at Intersection
2	0.095	0.150	546	38000	18	1300	
3	0.095	0.150	590	41000	19	1400	
4	0.095	0.150	589	41000	20	1400	
5	0.095	0.150	571	40000	21	1500	
Average	0.095	0.150	575	40200	20	1440	



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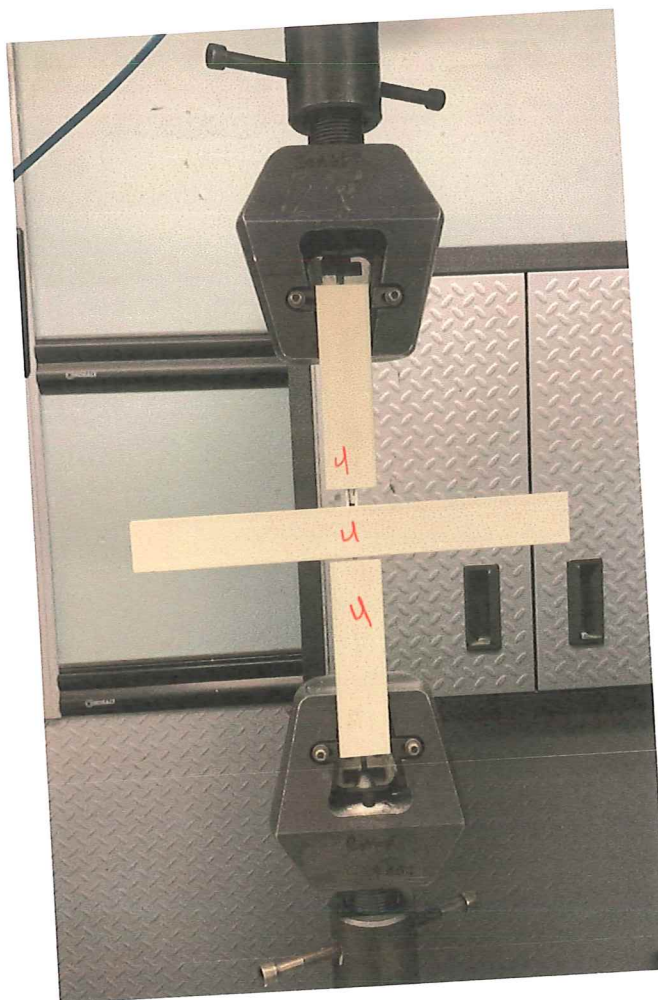
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REPORT OF MECHANICAL TEST



Cross Tee Clip System Pull-Apart Test

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REPORT OF MECHANICAL TEST

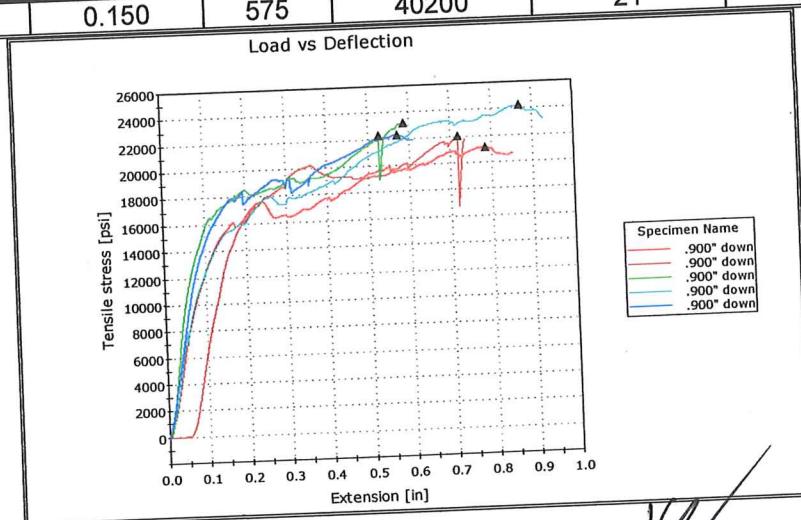
SAMPLE ID: TC 35 Tee Channel: Pultruded Resin with Extruded Grade K,
Type 2 virgin PVC, UL 94 V-O Certified

SUBJECT: 90° Hanging Pull-Out Test, Holes Located 0.900" Down
METHOD: ASTM D953-10 (Modified, Samples Tested in Finished Form)

INSTRUMENT: Instron 5500R with Bluehill software

RESULTS:

Specimen #	Thickness (in)	Bearing Hole Diameter (in)	Max Load (lbf)	Ultimate Bearing Strength (psi)	Load at Bearing Strength 4% Strain (lbf)	Bearing Strength (psi)	Failure Mode
1	0.095	0.150	580	41000	23	1600	Tee Channel
2	0.095	0.150	546	38000	18	1300	
3	0.095	0.150	590	41000	23	1600	
4	0.095	0.150	589	41000	25	1700	
5	0.095	0.150	571	40000	17	1200	
Average	0.095	0.150	575	40200	21	1480	



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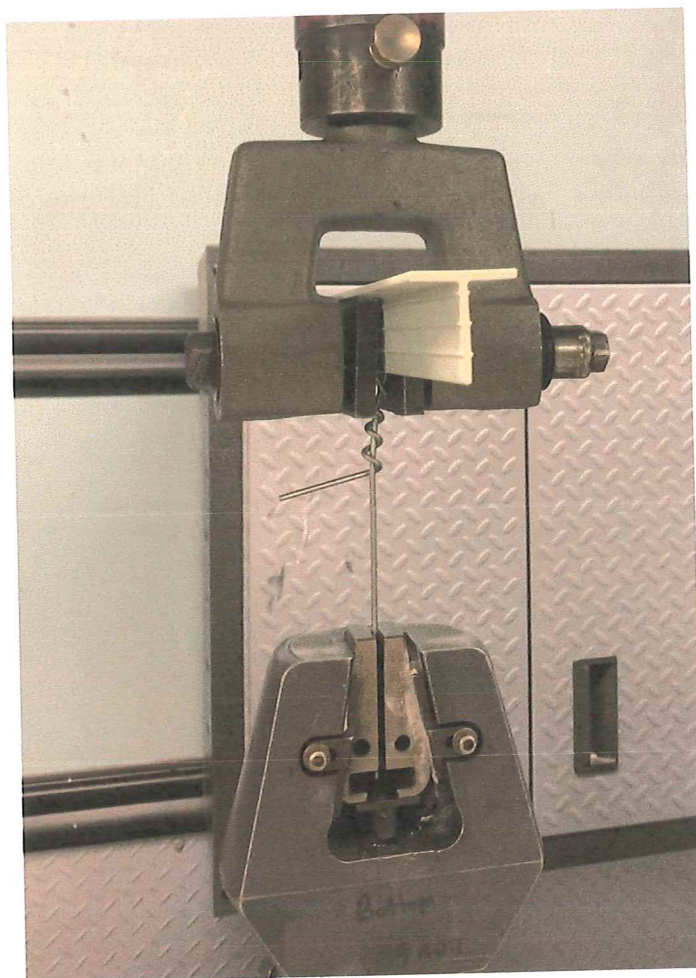
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REPORT OF MECHANICAL TEST



90° Hanging Pull-Out Test, Holes Located 0.900" Down

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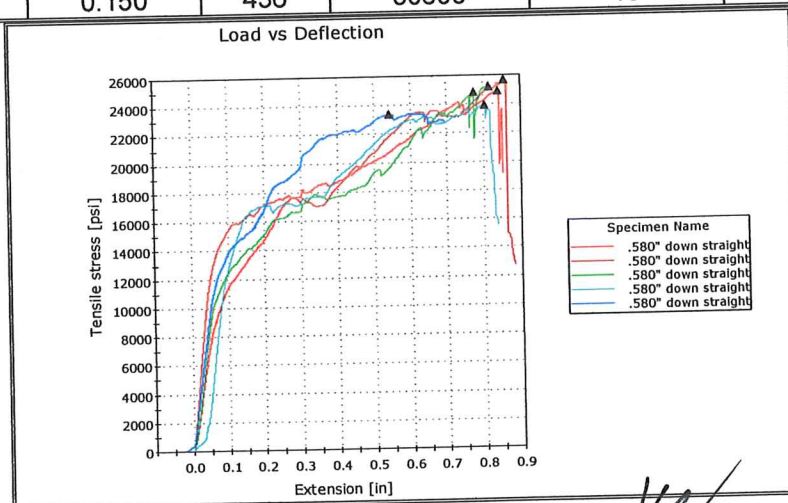
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REPORT OF MECHANICAL TEST

SAMPLE ID: TC 35 Tee Channel: Pultruded Resin with Extruded Grade K, Type 2 virgin PVC, UL 94 V-O Certified
SUBJECT: 90° Hanging Pull-Out Test, Holes Located 0.580" Down
METHOD: ASTM D953-10 (Modified, Samples Tested in Finished Form)
INSTRUMENT: Instron 5500R with Bluehill software
RESULTS:

Specimen #	Thickness (in)	Bearing Hole Diameter (in)	Max Load (lbf)	Ultimate Bearing Strength (psi)	Load at Bearing Strength 4% Strain (lbf)	Bearing Strength (psi)	Failure Mode
1	0.095	0.150	440	31000	13	940	Tee Channel
2	0.095	0.150	454	32000	18	1300	
3	0.095	0.150	446	31000	20	1400	
4	0.095	0.150	424	30000	31	2200	
5	0.095	0.150	414	29000	14	990	
Average	0.095	0.150	436	30600	19	1366	




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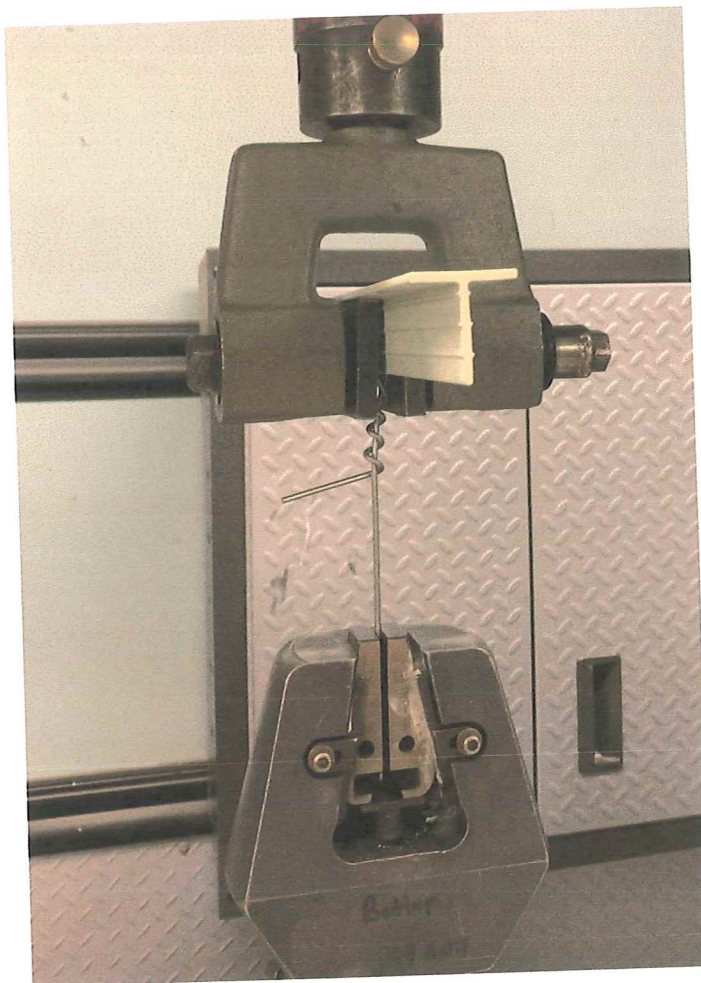
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REPORT OF MECHANICAL TEST



90° Hanging Pull-Out Test, Holes Located 0.580" Down

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REPORT OF MECHANICAL TEST

SAMPLE ID: TC 35 Tee Channel: Pultruded Resin with Extruded Grade K,
 Type 2 virgin PVC, UL 94 V-O Certified

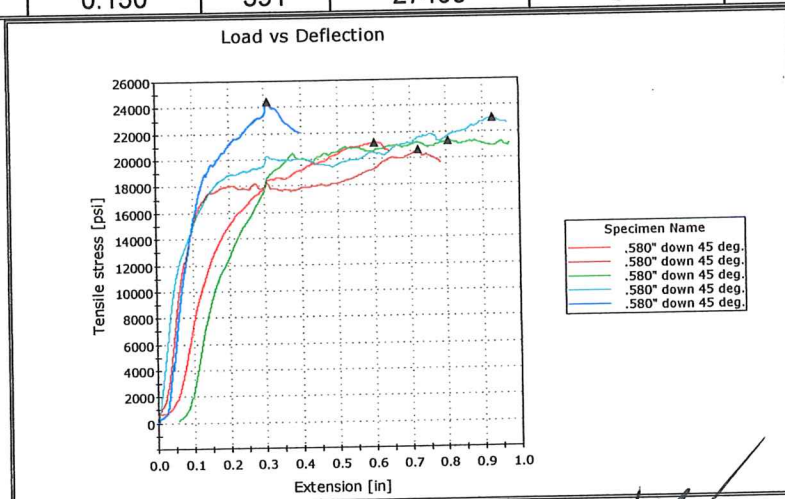
SUBJECT: 45° Hanging Pull-Out Test, Holes Located 0.580" Down

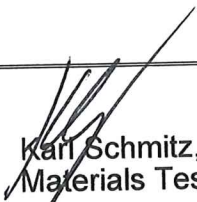
METHOD: ASTM D953-10 (Modified, Samples Tested in Finished Form)

INSTRUMENT: Instron 5500R with Bluehill software

RESULTS:

Specimen #	Thickness (in)	Bearing Hole Diameter (in)	Max Load (lbf)	Ultimate Bearing Strength (psi)	Load at Bearing Strength 4% Strain (lbf)	Bearing Strength (psi)	Failure Mode
1	0.095	0.150	375	26000	31	2100	Tee Channel
2	0.095	0.150	365	26000	35	2400	
3	0.095	0.150	377	26000	30	2100	
4	0.095	0.150	407	29000	22	1600	
5	0.095	0.150	431	30000	39	2700	
Average	0.095	0.150	391	27400	31	2180	




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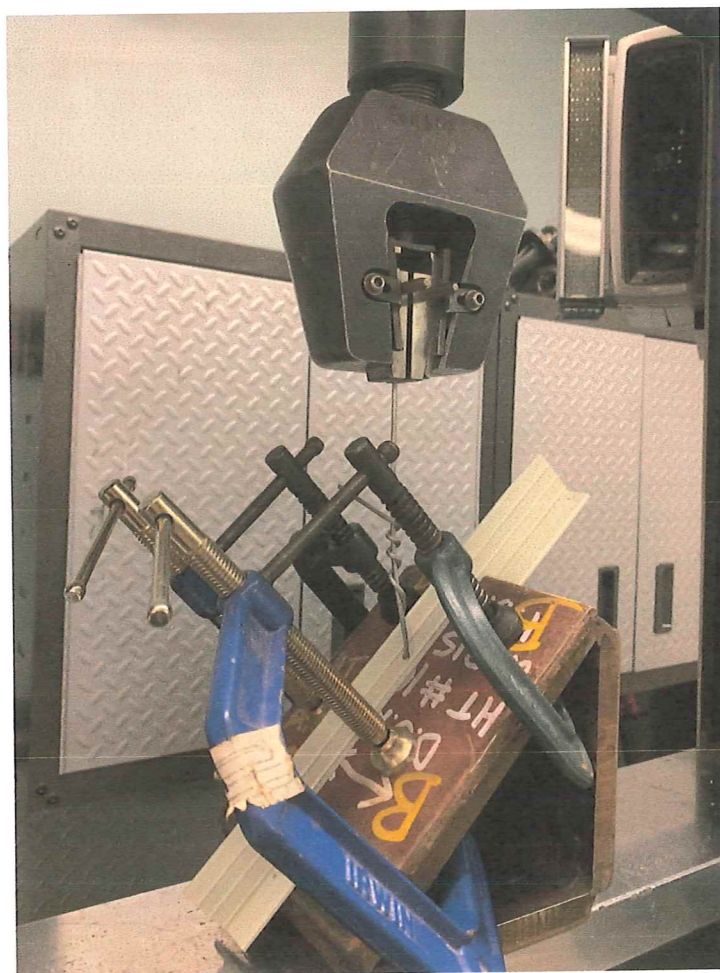
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REPORT OF MECHANICAL TEST



45° Hanging Pull-Out Test, Holes Located 0.580" Down

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REPORT OF MECHANICAL TEST

SAMPLE ID: TC 35 Tee Channel: Pultruded Resin with Extruded Grade K,
 Type 2 virgin PVC, UL 94 V-O Certified

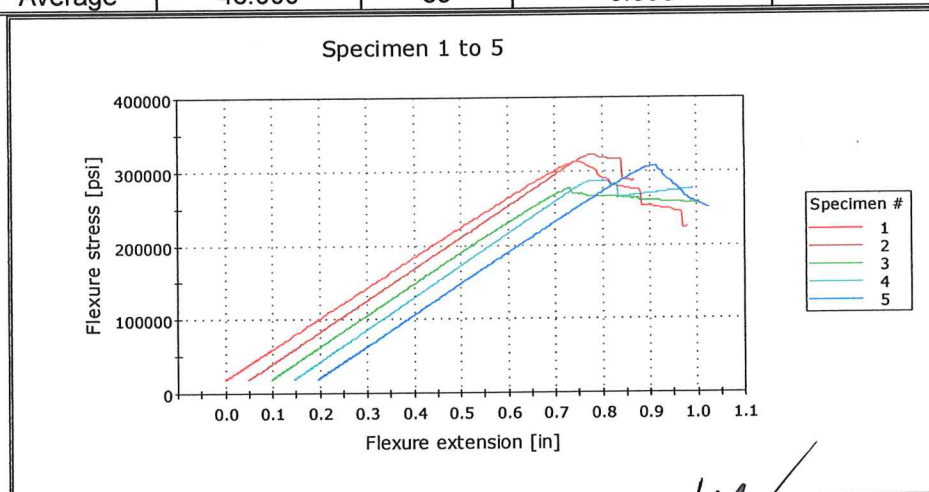
SUBJECT: Tee Beam Strength Test

METHOD: ASTM D790-17 (Modified, Samples Tested in Finished Form)

INSTRUMENT: Instron 5500R with Bluehill software

RESULTS:

Specimen #	Support Span (in)	Max Load (lbf)	Flexure Extension at Max Load (in)	Failure Mode
1	48.000	86	0.750	Tee Channel
2	48.000	89	0.737	
3	48.000	76	0.635	
4	48.000	79	0.638	
5	48.000	85	0.713	
Average	48.000	83	0.695	




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REPORT OF MECHANICAL TEST



Tee Beam Strength Test


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