ENERGETIC TEST LABS
5055 S 33rd St
Phoenix, AZ 85027

Test Report

ETL-TR-T11-24-281-0102

Test Date: October 8, 2024

Order Information

Customer Name	Tac11
Customer ID	T11
Quote #	VERBAL
Customer PO #	P00125
Test Order #	ETL-TO-T11-24-281
Test Plan #	ETL-TP-T11-24-281-0102

Sample Information

ETL Sample ID	ETL-TSI-T11-24-281-0102	**Size (in)**	9.5"x12.5"
Sample Type	Hard Armor	**Shape/Curvature**	Multi-Curve
Model Number	TX2741	**Feature Details**	2.25"x3.25" Upper Chamfers
Description	N/A	**Weight (lbs)**	2.286
Lot Number	N/A	**Thickness (in)**	0.927
Serial Number	412725-03	**Construction**	N/A

Ballistic Evaluation

Range Configuration

Temperature (°F)	Relative Humidity (%)	Barrel End to Target (ft)	Target to Velocity (ft)	Target to Witness (in)	Vel Set 1 Dist (ft)	Vel Set 1 Dist (ft)	Range #
66.5	44.3	24.875	12.45833333	0	15.33	14.33	1

Test Parameters

Test Type	Reference Spec.	No. Shots	Shot Pattern
Ballistic Resistance - V0	NIJ 0101.07	6	0101.07 6-shot

Threat	Velocity (ft/s)	Velocity Tolerance (ft/s)
M80	2780	±30

Backing	Witness Panel
Roma Plastilina #1 Ballistic Clay	N/A

Equipment/Ammunition Details

Receiver	Barrel	Threat	Propellant	Propellant Lot	Casing
HSP #1187	ETL-BA-22-003	M80	N133	230117CR02888	308 Winchester

Clay Validation

	Drop 1 (mm)	Drop 2 (mm)	Drop 3 (mm)	Drop 4 (mm)	Drop 5 (mm)	Avg. (mm)	Temp. (°F)	Box #	Drop Time
Pre-Test:	17.47	18.51	16.71	18.90	17.73	17.86	99.8	7	8:23:00 AM
Post-Test:									

Ballistic Evaluation Data

Shot #	Proj. Wt (gr)	Pwdr Wt (gr)	Time 1 (µs)	Time 2 (µs)	V1 (ft/s)	V2 (ft/s)	Vavg (ft/s)	Obliq. (°)	Result	BFD (mm)	Shot Location	Notes
1	147.4	40.3	5541	5182	2766.65	2765.34	2766.00	0	PP	34.29		
2	147.4	40.3	5543	5184	2765.65	2764.27	2764.96	0	PP	38.06		
3	147.4	40.3	5519	5160	2777.68	2777.13	2777.41	0	PP	N/A		
4	147.4	40.3	5505	5149	2784.74	2783.06	2783.90	30	PP	N/A		
5	147.4	40.3	5539	5179	2767.65	2766.94	2767.30	30	PP	N/A		
6	147.4	40.3	5540	5180	2767.15	2766.41	2766.78	0	PP	N/A		

Test Remarks

Acronyms

Evaluation	Shot Locations	Units
SIP - Stop in Plate	T - Top	F - Farenheit
SIV - Stop in Vest	B - Bottom	% - Percent
PP - Partial Penetration	M - Middle	inHg - Inches of Mercury
CP - Complete Penetration	C - Center	in - Inches
EV - Excessive Velocity	L - Left	ft - Feet
IV - Insufficient Velocity	R - Right	mm - Millimeter
UH - Unfair Hit	CR - Crown	° - Degrees
STEI - Shot-to-Edge Distance Incorrect	VP - Viewport	µs - Microseconds
STSI - Shot-to-Shot Distance Incorrect		ft/s - Feet per Second
ICW - In Conjunction With		

Test Report History

Report Revision	Operator 1	Operator 2	Approver	Notes	Date
A	RBurris	MDenhart	AGibson	Initial Release	10/8/2024

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Test Report

ETL-TR-T11-24-283-0101

Test Date: October 15, 2024

Order Information

Customer Name	Tac11
Customer ID	T11
Quote #	VERBAL
Customer PO #	P00126
Test Order #	ETL-TO-T11-24-283
Test Plan #	ETL-TP-T11-24-283-0101

Sample Information

ETL Sample ID	ETL-TSI-T11-24-283-0101	**Size (in)**	9.5"x12.5"
Sample Type	Hard Armor	**Shape/Curvature**	Multi-Curve
Model Number	TX2741	**Feature Details**	2.25"x3.25" Upper Chamfers
Description	N/A	**Weight (lbs)**	2.296
Lot Number	N/A	**Thickness (in)**	0.862
Serial Number	412725-07	**Construction**	N/A

Ballistic Evaluation

Range Configuration

Temperature (°F)	Relative Humidity (%)	Barrel End to Target (ft)	Target to Velocity (ft)	Target to Witness (in)	Vel Set 1 Dist (ft)	Vel Set 1 Dist (ft)	Range #
65.4	41.2	24.875	12.45833333	0	15.33	14.33	1

Test Parameters

Test Type	Reference Spec.	No. Shots	Shot Pattern
Ballistic Resistance - V0	NIJ 0101.07	6	0101.07 6-SHOT

Threat	Velocity (ft/s)	Velocity Tolerance (ft/s)
M193	3250	±30

Backing	Witness Panel
Roma Plastilina #1 Ballistic Clay	N/A

Equipment/Ammunition Details

Receiver	Barrel	Threat	Propellant	Propellant Lot	Casing
HSP #1187	ETL-BA-22-007	M193	N133	230117CR02888	5.56x45mm

Clay Validation

	Drop 1 (mm)	Drop 2 (mm)	Drop 3 (mm)	Drop 4 (mm)	Drop 5 (mm)	Avg. (mm)	Temp. (°F)	Box #	Drop Time
Pre-Test:	21.19	20.72	20.39	20.11	19.63	20.41	101.8	5	6:45:00 AM
Post-Test:									

Ballistic Evaluation Data

Shot #	Proj. Wt (gr)	Pwdr Wt (gr)	Time 1 (µs)	Time 2 (µs)	V1 (ft/s)	V2 (ft/s)	Vavg (ft/s)	Obliq. (°)	Result	BFD (mm)	Shot Location	Notes
1	55.2	23.6	4739	4432	3234.86	3233.30	3234.08	0	PP	24.53		
2	55.2	23.6	4704	4400	3258.93	3256.82	3257.88	0	PP	22.58		
3	55.2	23.6	4712	4407	3253.40	3251.65	3252.53	0	PP	N/A		
4	55.2	23.6	4726	4421	3243.76	3241.35	3242.56	30	PP	N/A		
5	55.2	23.6	4753	4444	3225.33	3224.57	3224.95	30	PP	N/A		
6	55.2	23.6	4744	4437	3231.45	3229.66	3230.56	0	PP	N/A		

Test Remarks

Acronyms

Evaluation	Shot Locations	Units
SIP - Stop in Plate	T - Top	F - Farenheit
SIV - Stop in Vest	B - Bottom	% - Percent
PP - Partial Penetration	M - Middle	inHg - Inches of Mercury
CP - Complete Penetration	C - Center	in - Inches
EV - Excessive Velocity	L - Left	ft - Feet
IV - Insufficient Velocity	R - Right	mm - Millimeter
UH - Unfair Hit	CR - Crown	° - Degrees
STEI - Shot-to-Edge Distance Incorrect	VP - Viewport	µs - Microseconds
STSI - Shot-to-Shot Distance Incorrect		ft/s - Feet per Second
ICW - In Conjunction With		

Test Report History

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A	RBurris	MDenhart	AGibson	Initial Release	10/15/2024

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Test Report

ETL-TR-T11-24-317-0101

Test Date: November 14, 2024

Order Information

Customer Name	Tac11
Customer ID	T11
Quote #	VERBAL
Customer PO #	P00134
Test Order #	ETL-TO-T11-24-317
Test Plan #	ETL-TP-T11-24-317-0101

Sample Information

ETL Sample ID	ETL-TSI-T11-24-317-0101	**Size (in)**	9.5"x12.5"
Sample Type	Hard Armor	**Shape/Curvature**	Multi-Curve
Model Number	TX2741	**Feature Details**	2.25"x3.25" Upper Chamfers
Description	N/A	**Weight (lbs)**	2.218
Lot Number	N/A	**Thickness (in)**	0.87
Serial Number	N/A	**Construction**	N/A

Ballistic Evaluation

Range Configuration

Temperature (°F)	Relative Humidity (%)	Barrel End to Target (ft)	Target to Velocity (ft)	Target to Witness (in)	Vel Set 1 Dist (ft)	Vel Set 1 Dist (ft)	Range #
70.1	39.5	24.875	7.510416667	0	15.33	14.33	1

Test Parameters

Test Type	Reference Spec.	No. Shots	Shot Pattern
Ballistic Resistance - V0	NIJ 0101.07	6	0101.07 6-SHOT

Threat	Velocity (ft/s)	Velocity Tolerance (ft/s)
7.62x39mm MSC Type 56	2400	±30

Backing	Witness Panel
Roma Plastilina #1 Ballistic Clay	N/A

Equipment/Ammunition Details

Receiver	Barrel	Threat	Propellant	Propellant Lot	Casing
HSP #1187	ETL-BA-22-001	7.62x39mm MSC Type 56	N133	230117CR02828	7.62x39mm

Clay Validation

	Drop 1 (mm)	Drop 2 (mm)	Drop 3 (mm)	Drop 4 (mm)	Drop 5 (mm)	Avg. (mm)	Temp. (°F)	Box #	Drop Time
Pre-Test:	20.59	19.83	19.24	18.39	18.41	19.29	100.2	8	10:16:00 AM
Post-Test:									

Ballistic Evaluation Data

Shot #	Proj. Wt (gr)	Pwdr Wt (gr)	Time 1 (µs)	Time 2 (µs)	V1 (ft/s)	V2 (ft/s)	Vavg (ft/s)	Obliq. (°)	Result	BFD (mm)	Shot Location	Notes
1	122.8	28.5	6316	5907	2427.17	2425.94	2426.56	0	PP	28.64	TL	
2	122.8	28.4	6345	5934	2416.08	2414.90	2415.49	0	PP	21.52	BR	
3	122.8	28.4	6375	5961	2404.71	2403.96	2404.34	0	PP	N/A	BL	
4	122.8	28.4	6383	5969	2401.69	2400.74	2401.22	30	PP	N/A	MR	
5	122.8	28.4	6380	5965	2402.82	2402.35	2402.59	30	PP	N/A	ML	
6	122.8	28.4	6390	5974	2399.06	2398.73	2398.90	0	PP	N/A	CR	

Test Remarks

Acronyms

Evaluation	Shot Locations	Units
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SIV - Stop in Vest	B - Bottom	% - Percent
PP - Partial Penetration	M - Middle	inHg - Inches of Mercury
CP - Complete Penetration	C - Center	in - Inches
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Test Report History

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A	AGibson	EGavelda	MDenhart	Initial Release	11/14/2024

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