

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

Chesapeake Testing

121 Bata Boulevard, Suite F
Belcamp, MD 21017

Client: Kejo Limited Company
Job No.: CD01-2010-R01BLT-22980
Test Date: 5/14/2010
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Test Panel Description: Plate and Kejo Saviour EOD Smock Panel

Manufacturer: Kejo Limited Company Sample No.: Blast plate

Size: See remarks	Heat No.: NA	Date Received: 5/14/2010
Thickness: NA	Weight: See remarks	Via: FedEx
Avg. Thick: NA	Hardness: NA	Returned: FedEx
Required BL(P): NA	Plies/Laminates: NA	

Setup

Shot Spacing: Per MIL-STD-662F	Primary Vel. Screens: 5 ft, 8 ft	Range No.: 2
Witness Panel: 0.02 in 2024-T3 Al	Primary Vel. Location: 6.5 ft	Temp: 68 °F
Obliquity: 0°	Range to Target: 10 ft	BP: 29.47 inHg
Backing Material: NA	Target to Witness: 6 in	RH: 43%
Condition: Ambient		Barrel/Gun: CDS-0205
		Gunner: Mike Murray
		Recorder: Mike Murray

Ammunition

Projectile	Lot No.	Powder
(1) .22-cal., 17-grain FSP	9070	Accurate No. 9

Applicable Standards or Procedures

(1) MIL-STD-662F

Shot No.	Powder/ Seating	Time 1 (µs)	Vel. 1 (ft/s)	Striking Vel. (ft/s)	Result	Include in V ₅₀	Footnotes
1	35.0	529.7	5664	5548	P	False	
2	40.0	477.9	6277	6148	C	True	
3	37.5	496.5	6042	5918	P	False	
4	39.0	484.2	6196	6069	C	True	
5	38.5	488	6148	6022	P	True	
6	39.0	486.9	6161	6034	P	True	
7	39.5	482.2	6221	6093	P	True	
8	40.0	479.3	6259	6131	C	True	

Remarks:
Plate - 10 x 16 in. Weight: 7.69 lbs
Vest - 15 x 18 in. Weight: 2.01 lbs

Footnotes:

V₅₀ Summary:

No. Points:	3 and 3
V ₅₀ :	6083 ft/s
High Partial:	6093 ft/s
Low Complete:	6069 ft/s
Range of Results (ROR):	126 ft/s
Range of Mix Results (RMR):	24 ft/s
Gap:	NA

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Manufacturer: Kejo Limited Company

Sample No.: Blast plate

Legend:

- ◆ Partial
- Complete
- V₅₀
- BL(P)

V₅₀ Summary:

No. Points: 3 and 3
V₅₀: 6083 ft/s
High Partial: 6093 ft/s
Low Complete: 6069 ft/s
Range of Results (ROR): 126 ft/s
Range of Mix Results (RMR): 24 ft/s
Gap: NA

Striking Velocity vs. Shot Number

