

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-20420
Test Date: 2/15/2010
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Test Panel Description: Kejo EOD Helmet

Manufacturer: Kejo Limited Company

Sample No.: CDS-2 (Helmet)

Size: Unknown
Thickness: 0.374 in; 0.326 in;
0.333 in; 0.411 in
Avg. Thick: 0.361 in
Required BL(P): NA

Heat No.: NA
Weight: 11.73 lbs
Hardness: NA
Plies/Laminates: NA

Date Received: 2/12/2010
Via: FedEx
Returned: FedEx

Setup

Shot Spacing: Per Customer Request
Witness Panel: 0.02 in 2024-T3 Al
Obliquity: 0°
Backing Material: NA
Condition: Ambient

Primary Vel. Screens: 5 ft, 10 ft
Primary Vel. Location: 7.5 ft
Range to Target: 15 ft
Target to Witness: 3 in

Range No.: 1
Temp: 70 °F
BP: 29.47 inHg
RH: 30%
Barrel/Gun: CDS-0205
Gunner: Matt Rixham
Recorder: Keith Crouse

Ammunition

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

Applicable Standards or Procedures

(1) MIL-STD-662F

Shot No.	Powder/ Seating	Time 1 (µs)	Vel. 1 (ft/s)	Time 2 (µs)	Vel. 2 (ft/s)	Avg. Vel. (ft/s)	Striking Vel. (ft/s)	Result	Include in V ₅₀	Footnotes
1	11.0	2005	2494	2008	2490	2492	2381	C	False	
2	9.5	2201	2272	2206	2267	2269	2167	C	False	
3	8.5	2379	2102	2384	2097	2100	2005	C	False	
4	7.5	2565	1949	2570	1946	1947	1859	C	True	
5	6.5	2885	1733	2891	1730	1731	1653	P	False	
6	7.0	2780	1799	2784	1796	1797	1715	P	False	
7	7.3	2656	1883	2660	1880	1881	1796	P	True	
8	7.5	2551	1960	2556	1956	1958	1869	P	True	
9	7.7	2585	1934	2588	1932	1933	1845	C	True	
10	7.5	2559	1954	2563	1951	1952	1863	C	True	
11	7.2	2716	1841	2720	1838	1840	1757	P	True	

Remarks:

V₅₀ Summary:

No. Points: 3 and 3
V₅₀: 1832 ft/s
High Partial: 1869 ft/s
Low Complete: 1845 ft/s
Range of Results (ROR): 112 ft/s
Range of Mix Results (RMR): 24 ft/s
Gap: NA

Footnotes:

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Legend:

- ◆ Partial
- Complete
- V₅₀
- BL(P)

V₅₀ Summary:

No. Points: 3 and 3
V₅₀: 1832 ft/s
High Partial: 1869 ft/s
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Range of Mix Results (RMR): 24 ft/s
Gap: NA

Striking Velocity vs. Shot Number

