FSI D20

CERTIFIED VALUES

Total Impulse: 13.5 newton-seconds
Delays: 0, 3, 5, 7, 12 seconds
Propellant Type: Black Powder
Propellant Mass: 20.0 grams
Casing Dimensions: 21 mm × 95 mm
Certification Date: 95-April-22
Contest Use Date: Continuing
Certification Type: Model Rocket

DATE TESTED VALUES

Date Tested: 95-April-22
Total Impulse: 13.01 newton-seconds (σ 0.35)
Peak Thrust: 43.13 newtons (σ 3.86)
Burn Time: 0.64 seconds (σ 0.05)
Average Thrust: 20.33 newtons
Mass After Firing: 25.1 grams

<table>
<thead>
<tr>
<th>Delay Time</th>
<th>Average Measured Delay</th>
<th>Initial Mass</th>
<th>Mfg Recommended Max Lift Off Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0.00</td>
<td>40.7 g</td>
<td>175 g</td>
</tr>
<tr>
<td>3</td>
<td>3.79</td>
<td>40.5 g</td>
<td>175 g</td>
</tr>
<tr>
<td>5</td>
<td>4.89</td>
<td>41.3 g</td>
<td>175 g</td>
</tr>
<tr>
<td>7</td>
<td>7.46</td>
<td>42.7 g</td>
<td>175 g</td>
</tr>
<tr>
<td>12</td>
<td>12.19</td>
<td>44.5 g</td>
<td>175 g</td>
</tr>
</tbody>
</table>

TYPICAL THRUST-TIME CURVE

REMARKS

Updated: 8/96

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