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ASTM D635
Linear Burn Rate Determination
Average = 9.37 mm/min (0.37 in./min)

Sample #	Burn Area Sample Size (l x w x th)	Burn Time	Burn rate, in./min.	Burn rate, mm/min.
1	4" x 0.5" x 0.375"	11:50 (710 secs)	0.34 in./min	8.58 mm/min
2	4" x 0.5" x 0.375"	11:00 (660 secs)	0.36 in./min	9.24 mm/min
3	4" x 0.5" x 0.375"	10:55 (655 secs)	0.37 in./min	9.31 mm/min
4	4" x 0.5" x 0.375"	10:06 (605 secs)	0.40 in./min	10.08 mm/min
5	4" x 0.5" x 0.375"	10:30 (630 secs)	0.38 in./min	9.58 mm/min
Average	---	10:52 (652 secs)	0.37 in./min	9.37 mm/min

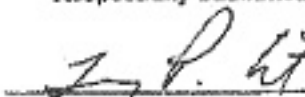
Test method: strips of the material, using existing thickness of sheet, are cut into lengths of 5" and a width of 0.5". A mark is placed 1" in from each end. One end is ignited; when the flame reaches the first mark, the timing begins. The rate of flame travel is recorded until the flame has traveled across the length of the sample to the second mark. It is that length of travel vs. time that determines linear burn rate. Please note that I used a 6" sample, marking in 1" from each end, and recorded flame burn rate over a 4" length. The specimens discussed in ASTM D635 have a 5" sample, with 1" marks from each end, meaning burn rate is measured over a 3" length. Because the burn rate is very consistent with this material, measuring over a 4" length as opposed to 3" length has no bearing on burn rate values.

ASTM D2240
Durometer Hardness
Average = 98 Shore A
(equivalent to average 67 Shore D)

Test Method: A Durometer, which is a hand held instrument, is placed onto the surface of the material. The Durometer contains a point indenter, hand pressure is applied until the indenter has fully penetrated the surface, about 3/32". The hardness is the resulting value appearing on the dial face of the instrument. Both Shore A and Shore D have been reported. They are similar instruments, having slightly different indentors. Shore A is typically used for softer materials like rubber, while Shore D is more common for harder materials, such as plastics.

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Respectfully Submitted


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