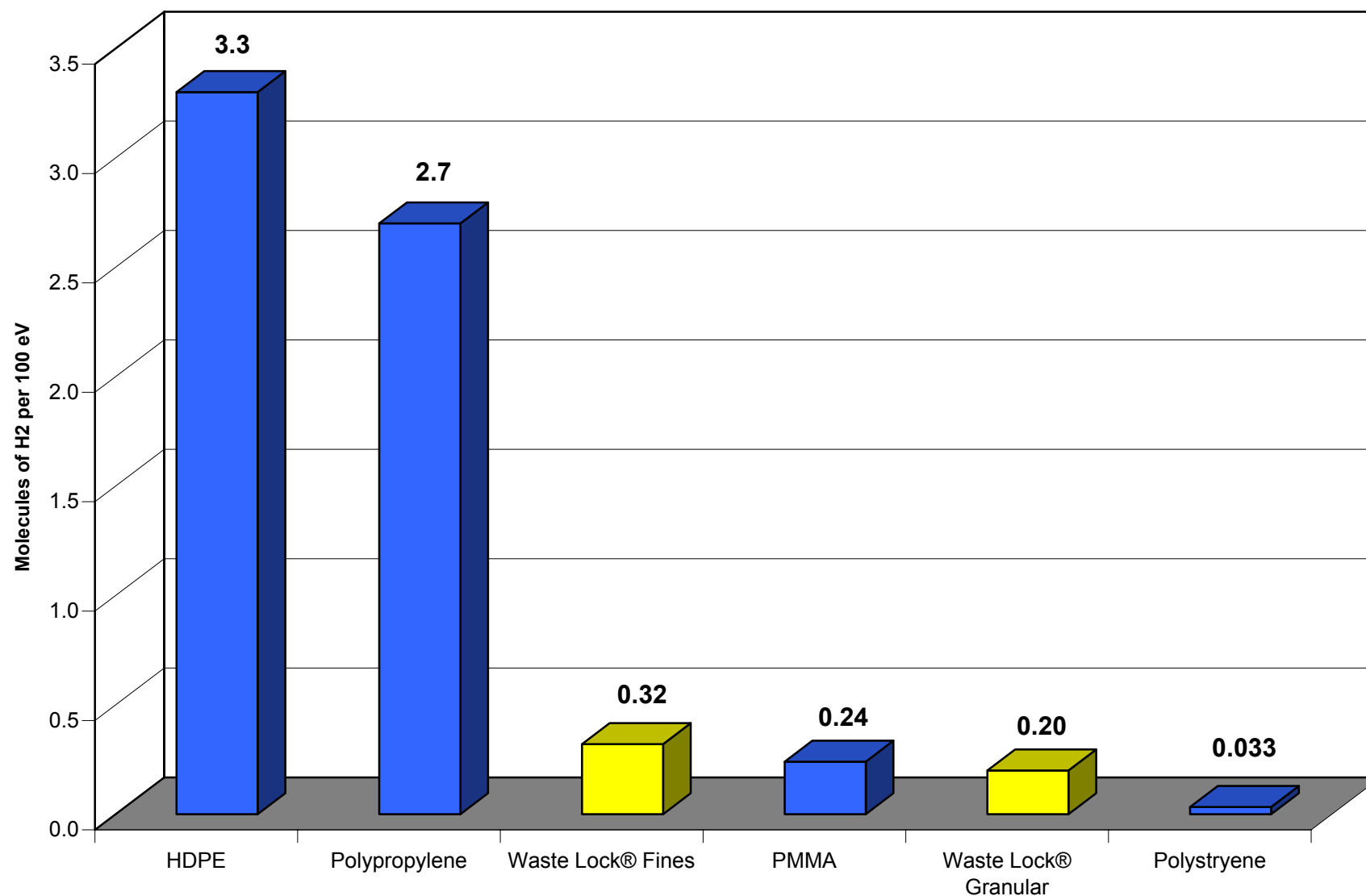


### G-Values for H<sub>2</sub> Production for the Gamma Radiolysis of Polymers



Comparison data as reported in: "Hydrogen Production in  $\gamma$ -Ray and Helium-Ion Radiolysis of Polyethylene, Polypropylene, Poly(methyl-methacrylate), and Polystyrene" Chang Z. & LaVerne J., Journal of Polymer Science, Vol. 38, 1656-1661 (2000). John Wiley & Sons, Inc.

Radiolysis data on Waste Lock® 770 polymer (an acrylate homopolymer) gathered by Dr. Jay LaVerne at University of Notre Dame (December 2003). Cobalt-60 source of 13.2 krad/min (132 Gy/min). Same GC equipment used as in 2000 published experiments. Waste Lock® Granular mean particle size 350 $\mu$ m. Waste Lock® Fines specially prepared for the test with mean particle size of 15  $\mu$ m.