FORMULAS FOR WEIGHT OF POLY BAGS

When sourcing poly bags, it is critical to know the weight per M bags, so you can determine how many total pounds of poly your are sourcing. Very few mills will run less than 500# per size (although there are some specialty small-run companies who specialize in this, at higher cost per pound). Film manufacturers who run 500# to 1000# cost-effectively may not be the best choice for runs of 2000#, 5000# or 10,000. Conversely, long-run hi-speed manufacturers will often not want to run les than 2000# (or certainly not less than 1000#).

The variables in the calculation are: Width, Gusset (if any), Length, Gauge, and Resin Type (constant of 15 or 14.5).

LDPE or LLPDE – Flat: **(W x L x GA)/15 = Wt per M bags**

       Ex: 10x12 .002   (10x12x2)/15 = 240/15 = 16# per M bags

LDPE or LLDPE – Gusseted: **((W+G) x L x GA)/15 = Wt per M bags**

       Ex: 12x3x18 .002   ((12+3)x18x2)/15 = 540/15 = 36# per M bags

       Ex: 8x2x12 .002   ((8+2)x12x2)/15   = 240/15 = 16# per M bags

HDPE – Flat: **(W x L x GA)/14.5 = Wt per M bags**

    Ex: 24x24" 12-micron = (24x24x0.472)/14.5 = 271.872/14.5 = 18.75# per M bags

HPDE – Gusseted: **((W+G) x L x GA)/14.5 = Wt per M bags**

    Ex: 12x3x18 10-micron = (15x18x.0.402)/14.5 = 108.54/14.5 = 7.49# per M bags

To get weight per roll (or per case), you need to know number of bags per roll (or per case), and simply multiply by the pack (as a fraction of 1000).