

$$P_M = \left[P_{2.5-5} \left(\frac{m_{0M}}{m_0} \right) \right] + \left[P_{5-10} \left(\frac{m_{1M}}{m_1} \right) \right] + \left[P_{10-20} \left(\frac{m_{2M}}{m_2} \right) \right] + \left[P_{20-31.5} \left(\frac{m_{3M}}{m_3} \right) \right] + \left[P_{31.5-56} \left(\frac{m_{4M}}{m_4} \right) \right] + \left[P_{56-112} \left(\frac{m_{5M}}{m_5} \right) \right]$$