

Reference Section

According to Palmer, the co-efficient of variation (CV) of fibre diameter of three-component blend can be predicted as follows:

$$C^2 = x_1 C_1^2 + x_2 C_2^2 + x_3 C_3^2 + 5,29 \times 10^4 \left\{ x_1 x_2 \left(\frac{\log_{10} d_1}{d_2} \right)^2 + x_2 x_3 \left(\frac{\log_{10} d_2}{d_3} \right)^2 + x_3 x_1 \left(\frac{\log_{10} d_3}{d_1} \right)^2 \right\}$$

Where C = CV of blend

C₁ C₂ and C₃ are the CV's (in %) of each component

d₁ d₂ and d₃ are the mean fibre diameter (in (m) of each component, and x₁ and x₂ and x₃ are fractions of each component blended.

In a two-component blend x₃ = 0.