Probab – goodness of fit

When a chi-square fitting with a number of degree of freedom (ndf) N_0 gave you a chi-square value χ_0^2, the probability is given by

probab = probability to get a higher χ^2 value than the χ_0^2 if you perform another experiment and fitting.

The higher probability means the lower χ_0^2. It means the better fit.

Usually in vertexing, people use the cut

$$\text{probab} > 0.001$$