The graded response model for a certain item observed in category k is

P(y=k | f) = F(k) - F(k-1),

where f represents the factor and where

 $F(k) = 1/[1+exp(tau_k - lambda*f)].$

As in equations (21) and (22) of our 2016 IRT document as well as in the Topic 2 handout, slide 94, the translation to IRT parameters with theta having mean zero and variance one is analogous to the translation for the binary logistic response case,

a = lambda*sqrt(psi),

b_k = (tau_k - lambda*alpha)/lambda*sqrt(psi),

where tau_k is a threshold, lambda is a factor loading, and alpha and psi are the mean and variance of the factor f, respectively.

The a and b_k parameters can be expressed in the Model Constraint command using parameter labels in the Model command for tau_k, lambda, alpha, and psi (the latter two may already be fixed to zero and one).