The basic definition of mod include facts that are not part of the implications analysis; 
\( z_{\text{mod_mod}} \), \( z_{\text{mod_opp_opp}} \), 
\( z_{\text{mod_zero_opp_full}} \), \( z_{\text{mod_nz_opp_full}} \), 
\( z_{\text{mod_zero_opp_r}} \), and \( z_{\text{mod_nz_opp_r}} \).

We add the basic definition to Bot element.