

A CompositeSolid, formed by the Solids  $A$  and  $B$ , should fulfil the following two properties:

**rule #1:** their interior should not overlap ( $A^\circ \cap B^\circ = \emptyset$ )

**rule #2:** their union should form one solid ( $A \cup B = \text{one Solid}$ )

val3dity can validate these with a user-defined tolerance, eg 2cm. Each Solid is either dilated or eroded by tolerance/2, as shown below.

