

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

**rule #1:**  $A^\circ \cap B^\circ = \emptyset$

**rule #2:**  $A \cup B = \text{one Solid}$

val3dity can validate these with a user-defined tolerance, eg 2cm. Each Solid is either dilated or eroded by  $(\text{tolerance}/2)$ , as shown below.

