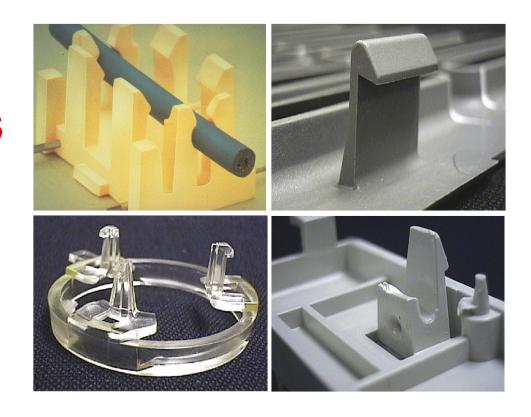
# **Snap-Fit Joints in Plastics**



Lanxess HK
Semi-Crystalline Product
Asia Pacific

#### Content

Introduction to Snap-Fit Joints in Plastics

Snap-Fit Joint Types

Design Factors for Snap-Fit Joint

FEM Demonstration

## Introduction to Snap-Fit Joints in Plastics

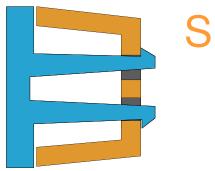
#### **Plastic Joining Techniques**

- Bonding
- Welding
- Mechanical Joining

- Rivets
- Screws
- Inserts
- Molded Threads
- Press Fits
- Snap Fits

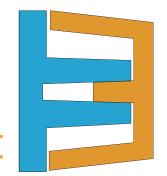
#### **Snap-Fit Joint Benefits**

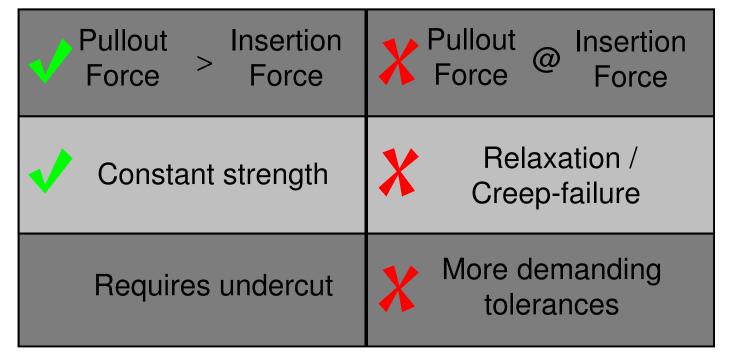
- Simple
- Economical
- Rapid
- Separable / Inseparable

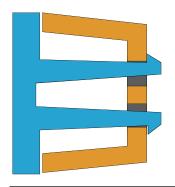


## Snap Fit vs.

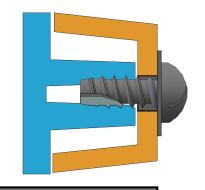






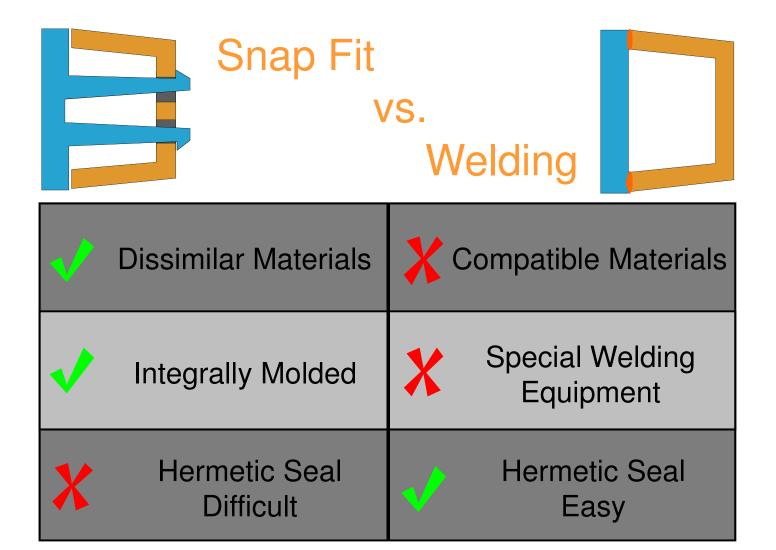


## Snap Fit vs.



#### Screws



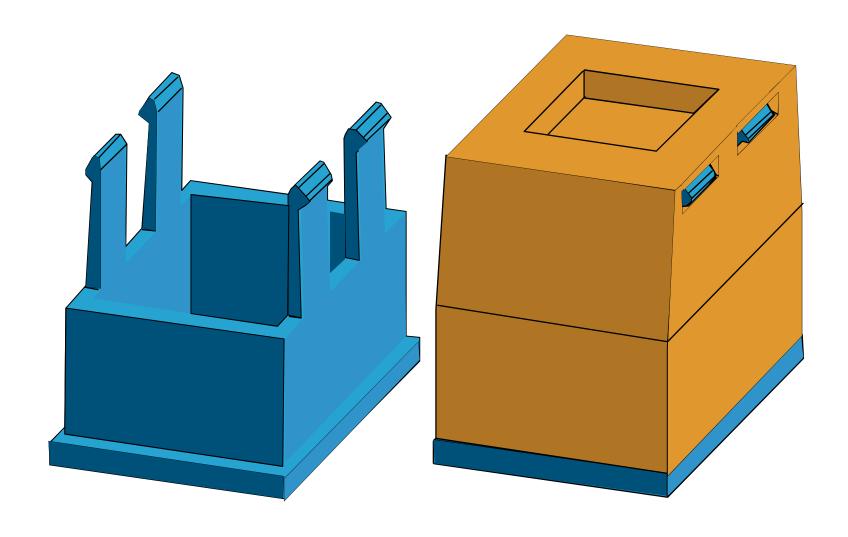


## **Snap-Fit Joint Type**

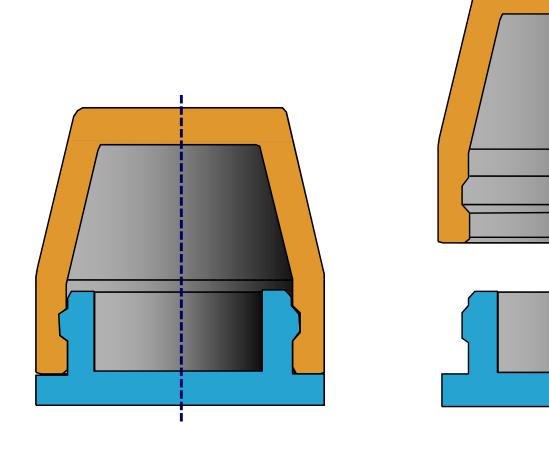
#### **Snap-Fit Joint Types**

- Cantilever
- Annular
- Torsional

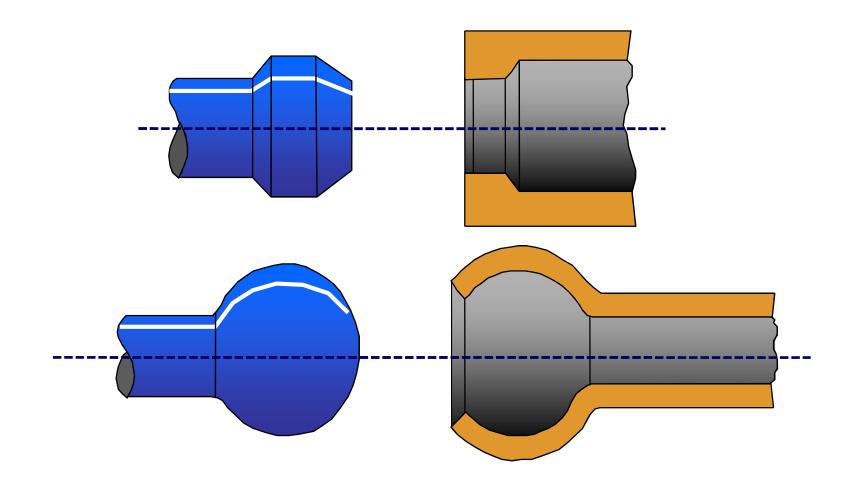
## **Cantilever Snap Joint**



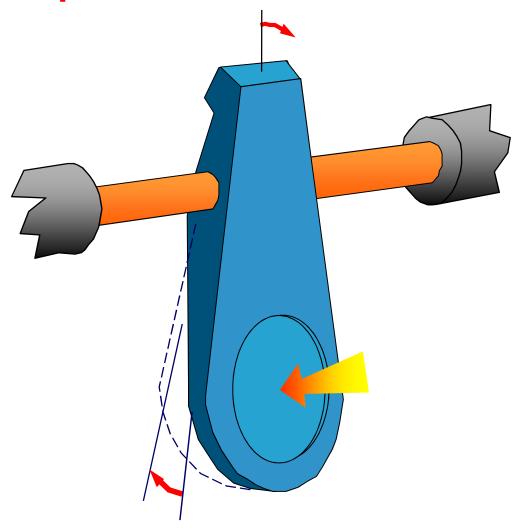
## **Annular Snap Joint**



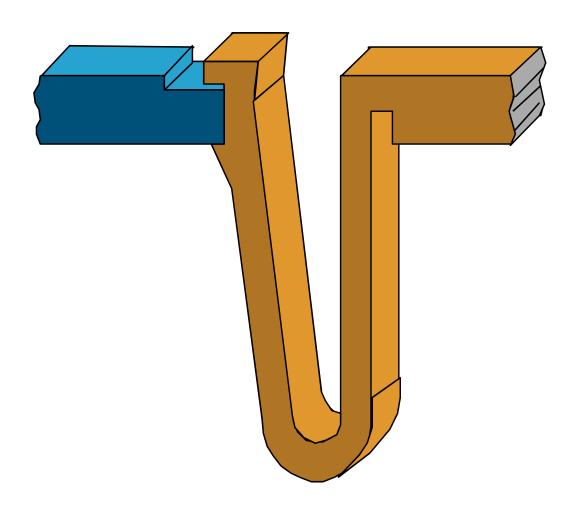
## **Annular Snap Joint (cont.)**



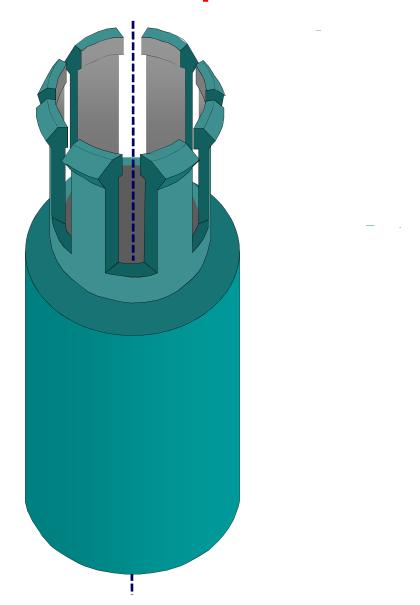
## **Torsional Snap Joint**



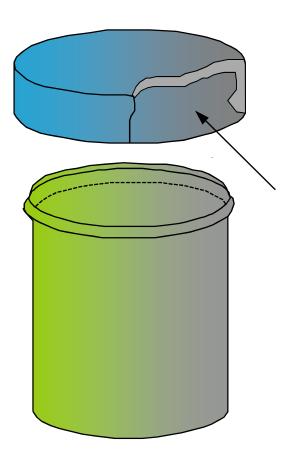
## **U-Shaped Snap Joint**



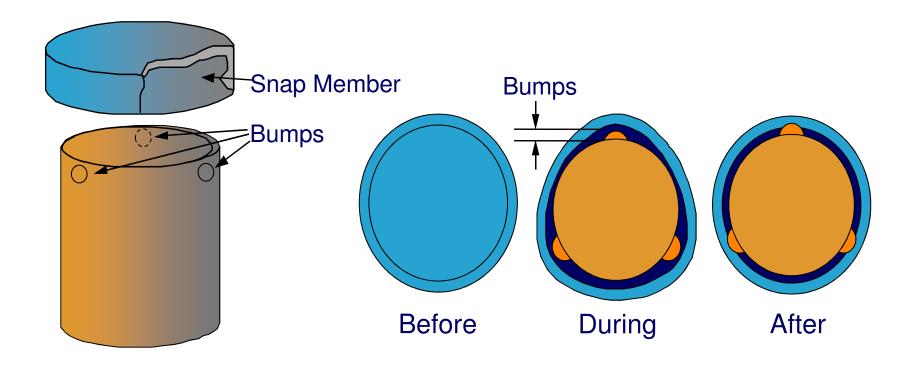
## **Discontinuous Annular Snap Joint**



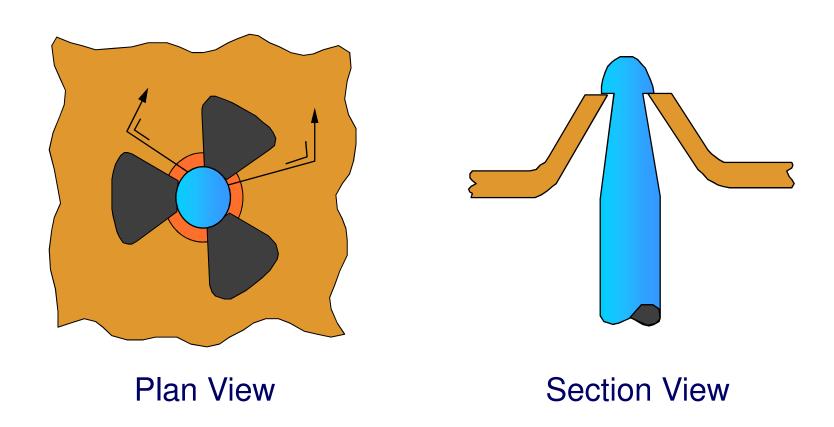
## **Hollow Cylinder Snap Joint**



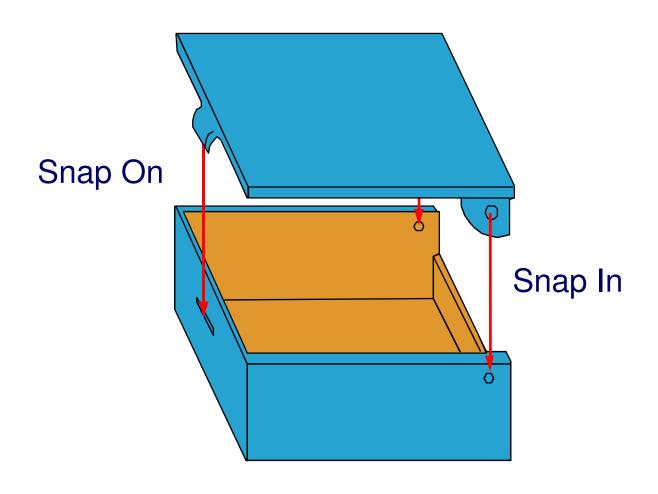
#### **Distortion Snap Joint**



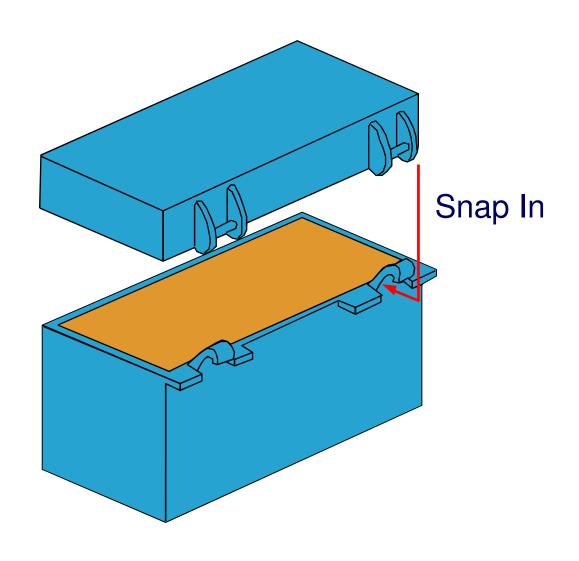
#### **Cantilever Variation Snap Joint**



#### **Snap Assembly Methods**



#### **No Undercut Method**



## **Typical Applications**

