



**LESSON 04 - RADIUS AND ANGLES**

**Radius**



**Angle**



**Design Considerations**

**Radiuses and Angles**

Due to nature of how the material flows and forms, sharp corners usually result in blow holes and porosity in the corners.

Adding a generous radius improves the molding of corners and distributes the stress over a broader area adding to the product's strength.

The minimum recommended angle at the corner of a part for polyethylene and PVC is 30, nylon is 20, polycarbonate is 45.

Corner angles less than these amounts can result in a bridging of plastic, increased porosity and excessive shrinkage.