



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**

**MATERIALS MANAGEMENT DIVISION**

**Powai, Mumbai 400076**

## **Technical Specifications for Tools for Solar Oven**

Specification of Mould for Solar Cooker:

A) Oven outer shell:

Mould flow has been done after placing the order:

- Type of Mould: Plastic injection Moulding
- Article material: PC (Polly-carbonate)
- Article Finish: Frosted & clear (optical clear)
- Mould material: P20 (For Core & Cavity)
- Mould finish: Core and Cavity: Mirror & frosted
- Base material for Mould: C45
- Number of cavity: 1 No.
- Machine type: 700/750 T
- Mould life: For more than 10 lakhs pcs
- Number of Runner: 3 Points
- Injection type: Hot runner
- Testing & Trial: Consider 2 extra revisions
- Delivery of final samples: Qty: 50 pcs.
- Delivery of the Mould: At IIT Bombay

## B) Oven Inner shell:

Mould flow has been done after placing the order:

- Type of Mould: Plastic injection Moulding
- Article material: PC (Polly-carbonate)
- Article Finish: Frosted & clear (optical clear)
- Mould material: P20 (For Core & Cavity)
- Mould finish: Core and Cavity: Mirror & frosted
- Base material for Mould: C45
- Number of cavity: 1 No.
- Machine type: 700/750 T
- Mould life: For more than 10 lakhs pcs
- Number of Runner: 3 Points
- Injection type: Hot runner
- Testing & Trial: Consider 2 extra revisions
- Delivery of final samples: Qty: 50 pcs.
- Delivery of the Mould: At IIT Bombay

## C) Oven Door:

Mould flow has been done after placing the order:

- Type of Mould: Plastic injection Moulding
- Article material: PC (Polly-carbonate)
- Article Finish: Frosted & clear (optical clear)
- Mould material: P20 (For Core & Cavity)

- Mould finish: Core and Cavity: Mirror & frosted
- Base material for Mould: C45
- Number of cavity: 1 No.
- Machine type: 400 T
- Mould life: For more than 10 lakhs pcs
- Number of Runner: 2 Points
- Injection type: Hot runner
- Testing & Trial: Consider 2 extra revisions
- Delivery of final samples: Qty: 50 pcs.
- Delivery of the Mould: At IIT Bombay

Trail should be done with the specified material and using the mould temperature controller.