

## Container for single layer for cold box

### Material considerations:

Maintains strength at -40°C : Resistant to impact

- High Density Polyethylene
- Polycarbonate

### Dimension Considerations:

RBDF flavor 7 Worst case dimensions: 31.2 x 11.37 cm OR 12.28346 x 4.476378 inches

### Possible Box:

- [V200C](#)
  - Material: Polyethylene
  - Dimensions: 35.6 x 25.4 x 14 cm
  - Has an O-ring
  - Min temperatures is only -18 C
- [iM2200](#)
  - Material: Injection Molded HPX™ high performance resin
  - Dimensions: 38.1 x 26.7 x 15.2 cm
  - Has an O-ring
  - Min temperature -29 C
- [WP-44 Polycarbonate NEMA Enclosure](#)
  - Material: Polycarbonate
  - Dimensions: 34.7 x 18.8 x 14.3 cm
  - No O-ring
  - Very Minimal, can be customized????
- [SK-22 Enclosure with Knobs](#)
  - Material: Polycarbonate
  - Dimensions: 35.3 x 24.5 x 10.2 cm
  - No O-ring
  - Has cutout areas for wires and pipes
  - Can be customized????

\*ALL DIMENSIONS ARE INTERNAL

### Questions:

- What material is the pixel cold box?
- How much does material matter in the box?
- Would it be better to design a box in solidworks?
  - If we design a box in solid works how easy would it be to manufacture and pick material? (i don't have much experience with ordering boxes)

- Can we customize the ploycase website enclosures, starting off with SK-22 or WP-44, and then order them on the same website?