

# ZENTEC™ Thermoplastics

## CIVCO RT Technical Data Sheet

ZENTEC Thermoplastics have an established reputation of being highly conforming masks. These thermoplastics are available in a variety of thicknesses and are compatible with Type-S™ or Uni-frame® Patient Positioning Systems. For a full list of available thermoplastic part numbers, please visit [www.civcort.com](http://www.civcort.com).

### Type-S™ IMRT Reinforced™

#### Product Configuration

##### Type-S IMRT Style 18

Head Only

310 L x 266 W x 20 H (mm)

##### MTAPUID1824VT

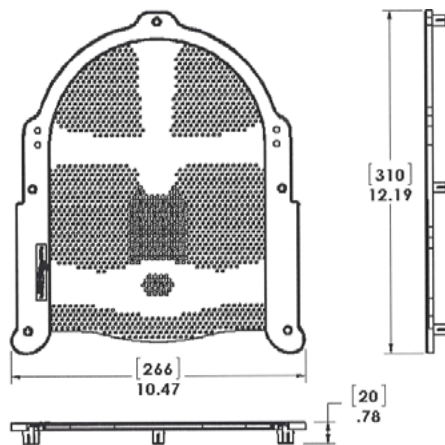
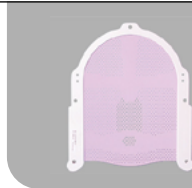
2.4 mm thickness

0.45 lbs (0.20 kg)

##### MTAPUID1832VT

3.2 mm thickness

0.55 lbs (0.25 kg)



##### Type-S IMRT Style 27

Head Neck Shoulders

483 L x 606 W x 20 H (mm)

##### MTAPSID2724VT

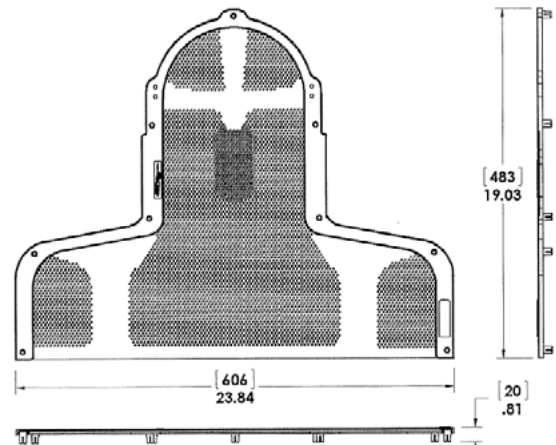
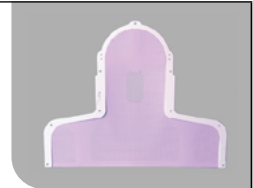
2.4 mm thickness

1.1 lbs (0.50 kg)

##### MTAPSID2732VT

3.2 mm thickness

1.4 lbs (0.63 kg)

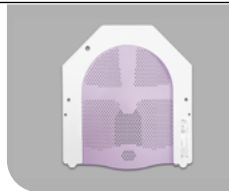
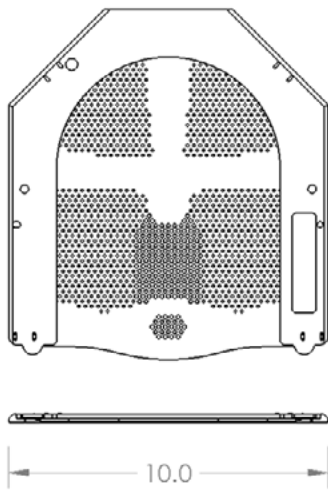


Product Configuration

**Uni-frame IMRT Style 18**

Head Only  
279 L x 254 W (mm)

**MTAPUI1824VT**  
2.4 mm thickness  
0.55 lbs (0.25 kg)

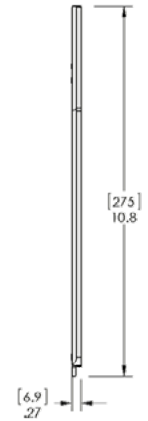
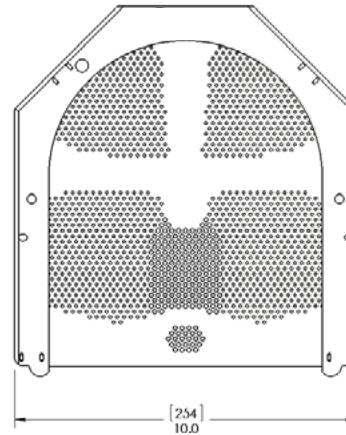


**Uni-frame IMRT Style 18**

Head Only, Wide  
275 L x 254 W (mm)

**MTAPUIW1824VT**  
2.4 mm thickness  
0.5 lbs (0.23 kg)

**MTAPUIW1832VT**  
2.4 mm thickness  
0.52 lbs (0.24 kg)



## Technical Details

	<b>2.4 IMRT Reinforced</b>	<b>3.2 IMRT Reinforced</b>
<b>Primary Materials</b>	Polycaprolactone, White Polycarbonate, Black Delrin	
<b>Activation temperature (water bath)</b>	75° C / 165° F	75° C / 165° F
<b>Activation time (water bath)</b>	2–3 min (Head-only) 2–3 min (H, N & S)	2–3 min (Head-only) 2–3 min (H, N & S)
<b>Attenuation (Unstretched Mask)**</b>	<b>6MV:</b> 0.81% (Perf region) 0.78% (Solid region) <b>18MV:</b> 0.21% (Perf region) 0.09% (Solid region)	<b>6MV:</b> 1.03% (Perf region) 1.09% (Solid region) <b>18MV:</b> 0.30% (Perf region) 0.21% (Solid region)
<b>Thickness</b>	2.4 mm (.094")	3.2 mm (.125")
<b>Perforation (surface)</b>	Varies (IMRT Pattern)	Varies (IMRT Pattern)
<b>Density</b>	1.145 g/cm <sup>3</sup>	1.145 g/cm <sup>3</sup>
<b>Surface feeling</b>	Smooth	Smooth
<b>Color</b>	Lavender	Lavender
<b>Odor</b>	None	None
<b>Biocompatible</b>	Yes	Yes
<b>Transparent when activated</b>	No	No
<b>Molding time (maximum)*<sup>a</sup></b>	1 min 30 sec	2 min
<b>Hardening time*<sup>b</sup></b>	4 min 30 sec	4 min
<b>Time to completion (minimum)*<sup>c</sup></b>	6 min	6 min

## Product Details

<b>Indications for use</b>	Head & Neck Immobilization
<b>Contraindications</b>	None
<b>MR Safe</b>	Yes
<b>Integration</b>	Connects to Universal Couchtop™ and Baseplates with Type-S™ or visit <a href="http://www.civcort.com">www.civcort.com</a> for Uni-frame® options
<b>FDA Clearance</b>	Yes
<b>CE Marked (EU DOC)</b>	Yes
<b>Other Country Registrations</b>	Available upon request
<b>Country of Manufacture</b>	USA

## Packaging Details

<b>Unit Pack</b>	1 Piece
<b>Units / Box</b>	5 Pieces
<b>Shelf Life</b>	Not Applicable
<b>Warranty</b>	<a href="#">See CIVCO RT website for Product Warranty Statement</a>
<b>Sterilization</b>	Non-Sterile

## Test Procedures used to Acquire Data

### Definitions\*

- Molding Time** - the time frame available from when the mask is removed from the waterbath to the time that the mask can no longer be molded or formed.
- Hardening Time** - the time between the molding and completion time where the mask should be cooling and hardening on its own without being manipulated or molded.
- Time to Completion** - the total time from when the mask is taken out of the waterbath to when the mask can be removed from the patient.

### Attenuation Test Conditions\*\*

- 100 cm SAD
- 10 x 10 cm Field Size
- 6 MV Dmax = 1.5 cm  
18 MV Dmax = 3.0 cm

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