



Industrial Custom Products

2801 37th Ave NE
 Minneapolis, MN 55421

Thermoforming/Vacuum Forming Tolerance Standards

Dimension	Feature	HDPE		ABS/HIPS/TPO	
		Critical	Non-Critical	Critical	Non-Critical
0"-12"	1. Mold surface to Mold surface	±.045	±.060	±.030	±.050
	2. Mold surface to trimmed edge	±.045	±.060	±.030	±.050
	3. Mold surface to hole	±.045	±.060	±.030	±.050
	4. Hole to Hole	±.030	±.060	±.020	±.050
	5. Hole size drilled	±.015	±.020	±.010	±.020
	6. Cut-out routed (CNC)	±.020	±.020	±.020	±.020
	7. Cut-out routed (Hand)	±.050	±.090	±.040	±.080
12"-24"	1. Mold surface to Mold surface	±.060	±.090	±.030	±.060
	2. Mold surface to trimmed edge	±.060	±.090	±.030	±.060
	3. Mold surface to hole	±.060	±.090	±.030	±.060
	4. Hole to Hole	±.030	±.060	±.020	±.060
	5. Cut-out routed (CNC)	±.030	±.050	±.030	±.040
	6. Cut-out routed (Hand)	±.080	±.160	±.060	±.130
24"-48"	1. Mold surface to Mold surface	±.090	±.150	±.045	±.090
	2. Mold surface to trimmed edge	±.060	±.120	±.045	±.090
	3. Mold surface to hole	±.060	±.120	±.045	±.090
	4. Hole to Hole	±.060	±.120	±.030	±.060
	5. Cut-out routed (CNC)	±.035	±.060	±.030	±.045
	6. Cut-out routed (Hand)	±.130	±.190	±.080	±.160
48"-96"	1. Mold surface to Mold surface	±.120	±.190	±.060	±.120
	2. Mold surface to trimmed edge	±.090	±.150	±.060	±.120
	3. Mold surface to hole	±.090	±.150	±.060	±.120
	4. Hole to Hole	±.090	±.150	±.060	±.120
	5. Cut-out routed (CNC)	±.040	±.080	±.035	±.060
	6. Cut-out routed (Hand)	±.160	±.200	±.130	±.190

Tolerances for dimensions above 96" need to reviewed on a case by case basis.

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