Emergency Face Shield ET02 Rev B

Bill of Materials

Face Shield Assembly

QTY	Description	Material	Notes
2	Frame	PETG/ copolyester (recommended)	Nominal 0.080" THK works well. Use any/all available materials that — can be CNC cut (laser, router, etc.). Polymers recommended as they
2	Adjustable Sliders	PETG/ copolyester (recommended)	can be disinfected &/or sanitized between uses.
1	Face Shield	.020" THK (0.75 mm) PETG/copoly	Alt: THK .010 to .040", report covers, or sheet protectors
4	1-1/8" lengths of 1/2" PEX, PVC, CPVC	Basic plumbing pipe or tubing	Atl Matl: Cooper, Aluminum, Brass tubing with ID > .25" (6mm)
4	6-½" or 8" Cable (Zip) Ties	Nylon	50# or 75# Loop Tensile Strength
2	4" Cable (Zip) Ties (small)	Nylon	Medium width OK; Fits thru ¼" (6mm) DIA hole in shield
2	1-¼ In length	5/8 OD x 3/8 Wall Pipe Foam Insulation	Cut to length with paper cutter, box cutter, scissors, etc.
~33"	1" or 3/4" wide (Single Ply) Belting/Straping	Polypropelene	Alt Matl: :1/8" paracord, soft polymer, 7½"+ rubber band, etc.

Rev A, 2020Apr11 - WKH

Notes

Tools for Assembly

QTY

<u> </u>	Description	Notes
1	Diagonal or End Cutter/Nipper(s), Small	Look for the ubiquitous six (6) piece "Precision Pliers Set" available at
1	(Optional) Needle Nose Pliers, Small	hardware stores
	320 grit Emory cloth or sandpaper	General deburring of frames & sliders
	400 or higher Emory Cloth/sandpaper	Use to "polish" frame forehead contact areas
1	Xacto Knife, box cutter, etc	
1	Deburring Tool	
	6" Rule	
	Trash Can	
	Lighter or candle (flame source)	Use for whipping cut end(s) of strapping.
	Production / Prep A	rea Tooling (Pre-Assembly)
1	Paper Trimmer, Guillotine Paper Cutter	Use for cutting 1-1/4" (32mm) lengths of Foam Insulation
2	Clamps, Squeeze Type	Use to secure the paper cutter
1	Scissors	Use to cut polyethelene belting/strapping
1	Aviation Snips	To cut frame/slider stock material as REQD
1	Shear (24"+ width)	Cut Down Flat Stock for Laser
1	Carpenter's Square	
1	Tape Measure	
2	Permanent Marker	
1	Portable Drill	
1	Drill Press	
1	1/4 Drill Bit (for polymer or jobber)	