KYDEX THERMOPLASTICS

Punching / Perforating KYDEX® Thermoplastic Sheet

INTRODUCTION

KYDEX® sheet may be cut by punching or stamping with sheet metal punches and punching equipment. Arch or gasket punches may also be used. These punches have a zero shearing angle, so considerable force is necessary to make the cut.

Please note that the cutting forces will be somewhat lower for punches that have a shearing angle. Also note that KYDEX® sheet of 6.35mm (0.250”) or greater thickness must be punched with power operated equipment.

KYDEX® sheet punches cleanly with no chipping or cracking. In some cases, however, there may be some stress whitening at the entry hole. This may be removed by gently heating the affected area with a flameless source of heat. Care must be taken to avoid causing localized distortions in the KYDEX® sheet.

Relatively small parts of thin gauge KYDEX® sheet can be stamped with sheet metal punch and die sets. Punching, stamping, and shearing may sometimes be combined with other fabrication methods such as brake forming to produce parts of complex shape cut to finished dimensions in a single operation.

Thickness	Punching Force, lbs/linear inches of cut
0.71mm (0.028”)	150
1.02mm (0.040”)	250
1.52mm (0.060”)	500
2.03mm (0.080”)	700
2.36mm (0.093”)	1000
3.18mm (0.125”)	1350

SEKISUI KYDEX

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PERFORATING KYDEX® SHEET

KYDEX® sheet is ideally suited for perforation applications. It is lighter and more corrosive resistant than metal and retains all physical, chemical, color and thermoforming properties before, during and after perforation.

The following companies are familiar with the perforation of KYDEX® sheet products in a variety of patterns, and can be contacted for information.

Diamond Perforated Metals, Inc.
7300 West Sunnyview Ave
Visalia, CA 93291
800.642.4334
(Micro-perforated available as pattern #5555)
www.diamondperf.com

Diamond Manufacturing Company
243 West 8th Street
Wyoming, PA 18644
www.diamondman.com

Erdle Perforating Company
100 Pixley Industrial Parkway
Rochester NY 14603
585-247-4700
www.erdle.com

Quality Perforating, Inc
166 Dundaff Street
Carbondale, PA 18407
800.872.7373
www.qualityperf.com

Ametco, Inc
4326 Hamann Parkway
PO Box 1210
Willoughby, OH 44096
440.951.4300
www.ametco.com

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