Technical Brief



Mechanically Fastening KYDEX[®] Thermoplastic Sheet

For information applicable to KYDEX® FST please refer to 300 series technical briefs.

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General Information

If solvent bonding or hot gas welding is not feasible for your specific application, KYDEX sheet can also be mechanically fastened. Some guidelines are listed below.

Where rigid fasteners are used, consideration must be given to the thermal expansion differential between KYDEX sheet and any other material to which it will be joined. To allow for this differential, oversized holes by 1.50mm (0.063") in diameter should be drilled into the KYDEX sheet. Failure to allow for thermal expansion differentials may result in objectionable buckling during temperature changes.

Where mechanically fastened KYDEX sheet assemblies are to be subjected to high stress, the use of nylon or rubber washers or large headed fasteners are recommended to prevent the fastener heads from pulling through the KYDEX sheet. Also, keep in mind that high tension should not be used when riveting KYDEX sheet.

Other options for fastening include the use of foam tapes, adhesives, or Velcro hook & loop fasteners.

Coefficient of Linear Thermal Expansion:

KYDEX® 6200: 7.9 x 10-5 cm/cm/°C (4.4 x 10-5 in/in/°F) KYDEX[®] T: 6.9 x 10⁻⁵ cm/cm/°C (3.83 x 10⁻⁵ in/in/°F) KYDEX® 100: 7.56 x 10⁻⁵ cm/cm/°C (4.2 x 10⁻⁵ in/in/°F)

Kleerdex Company, LLC

ISO 9001 and ISO 14001 Certified

Customer Service 6685 Low St, Bloomsburg, PA 17815 USA Phone: 800.325.3133, +1.570.389.5810 Outside the US: +1.570.389.5814 Fax: 800.452.0155, +1.570.387.7786 Email: info@kydex.com

Technical Service

Phone: 800.682.8758 ext. 581 Fax: +1.570.387.8722 Outside the US: +1.570.387.6997 ext.581

www.kydex.com

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