



Kleerdex Company

KYDEX® GND CONDUCTIVE FIRE-RATED SHEET

Conductive fire resistant thermoplastic acrylic/PVC sheet for the electronics industry.

GENERAL INFORMATION

Kydex GND is a proprietary acrylic/PVC thermoplastic sheet that offers a surface resistance of 105 Ohms/square, while retaining the excellent forming properties of Kydex. Kydex GND offers more uniform forming with less wall thinning, greater detail, and significantly greater resistance to a broad range of corrosive chemicals and cleaning solutions. Based on independent lab testing, it meets the flammability requirements of UL Standard 94 V-0 at 0.125" (3.12mm). Kydex GND is available in black only.

SUGGESTED END-USES

- Electronic equipment where protection against electro-static damage is essential.
- Conductive floor mats
- C containers like trays, storage bins, boxes, chip carriers, tray dividers, etc.
- Internal electronic equipment or components requiring a UL 94 V-0 rating.

FEATURES

CONDUCTIVE PROPERTIES - Unlike other conductive sheet grades, Kydex GND retains its conductance even after forming.

SUPERIOR FORMABILITY - For deep or hard to form parts, Kydex GND outperforms the competitive conductive sheet in thermoformability.

CHEMICAL RESISTANCE - Kydex is very resistant to a broad range of chemicals, particularly to acids and bases.

RIGIDITY - Kydex GND is very rigid, with a flexural modulus of 271,000 psi (1868 MPa).

FIRE RATED - Kydex GND meets the requirements of UL Standard 94 V-0 at 0.125" (3.12mm).

FABRICATION

Kydex GND is easy to form and retains its conductive properties after forming. Excellent forming properties result in uniform wall thicknesses and crisp detail, plus easy machining and fabricating using conventional methods and equipment.

PROPERTY	TEST METHOD	TYPICAL VALUE ¹
Specific Gravity	ASTM D-792	1.25
Tensile Strength, psi (MPa)	ASTM D-638	4,800 (33)
Elongation at Break, %		106
Tensile Modulus, psi (MPa)		300.5 (2072)
Flexural Strength, psi (MPa)	ASTM D-790	6,400 (44)
Flexural Modulus, psi (MPa)		335,000 (1868)
Rockwell Hardness, R	ASTM D-785	82
Notched Izod Impact Resistance, 73°F (23°C),ft-lbs/in(J/m)	ASTM D-256	2-3 (107-160)
Heat Deflection Temperature, HDT, @264psi (1.8 MPa),annealed,°F (°C)	ASTM D-648	162° (72°)
Surface Resistivity, Ohms/square	ASTM D-257	10 ⁵
Flammability Resistance Underwriter's Lab.	UL Standard 94	V-0

¹All values based on 0.125" (3.12mm) sheet unless otherwise specified.

² Not intended for specification purposes.