

Fiberglass Solid Sheets



ACP's G-10/FR4 Fiberglass Sheets are solid, high strength laminates consisting of fiberglass prepreg reinforced with high strength epoxy resin. They are FR4 grade fire retardant and can be safely substituted where G10 is called for.

Fiberglass Sheets are Autoclave cured at high temperatures and pressure to ensure a strong, rigid product that cannot be re-shaped after cured. Unlike with a wet layup, Autoclave curing consistently yields flat, lighter weight sheets with minimal voids, waves or buildups.

Physical Properties

Thickness	.005"	.010"	.015"	.020"	.030"	.063"	.094"
Thickness Tolerance	+/- .002"	+/- .002"	+/- .003"	+/- .004"	+/- .006"	+/- .007"	+/- .009"
Material	G10/FR4	G10/FR4	G10/FR4	G10/FR4	G10/FR4	G10/FR4	G10/FR4
Resin Matrix	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy	Epoxy
Color	Natural	Natural/Black	Natural/Black	Natural	Natural/Black	Black	Black
Finish	Smooth	Smooth	Smooth	Smooth	Smooth	Smooth	Smooth

Technical Properties

Tensile Strength, Lengthwise	40,000 psi
Tensile Strength, Crosswise	35,000 psi
Compressive Strength, Flatwise	60,000 psi
Compressive Strength, Edgewise	35,000 psi
Flexural Strength, Lengthwise	55,000 psi
Flexural Strength, Crosswise	45,000 psi
Modulus of Elasticity in Flex	2.7 psi x 10 ⁶ Lengthwise
Modulus of Elasticity in Flex	2.2 psi x 10 ⁶ Crosswise
Shear Strength	19,000 psi
IZOD Impact, Flatwise	7 ft lbs per in of notch
IZOD Impact, Edgewise	5.5 ft lbs per in of notch
Rockwell Hardness M Scale	110
Specific Gravity	1.82

All the information contained in these properties is believed to be reliable. It is intended for comparison purposes only as each manufactured lot will exhibit variations. The user should evaluate the suitability of each product for their application. We cannot anticipate the variations in all end use and we make no warranties and assume no liability in connection with the use of this information.

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Technical Properties

CTE	0.9 cm/cm/deg C x 10 ⁻⁵
Water Absorption	0.25% per 24 hrs on .062" thick
Flame Resistance	94V-0
Bond Strength	2,000 lbs
Max Operating Temperature	285°F

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