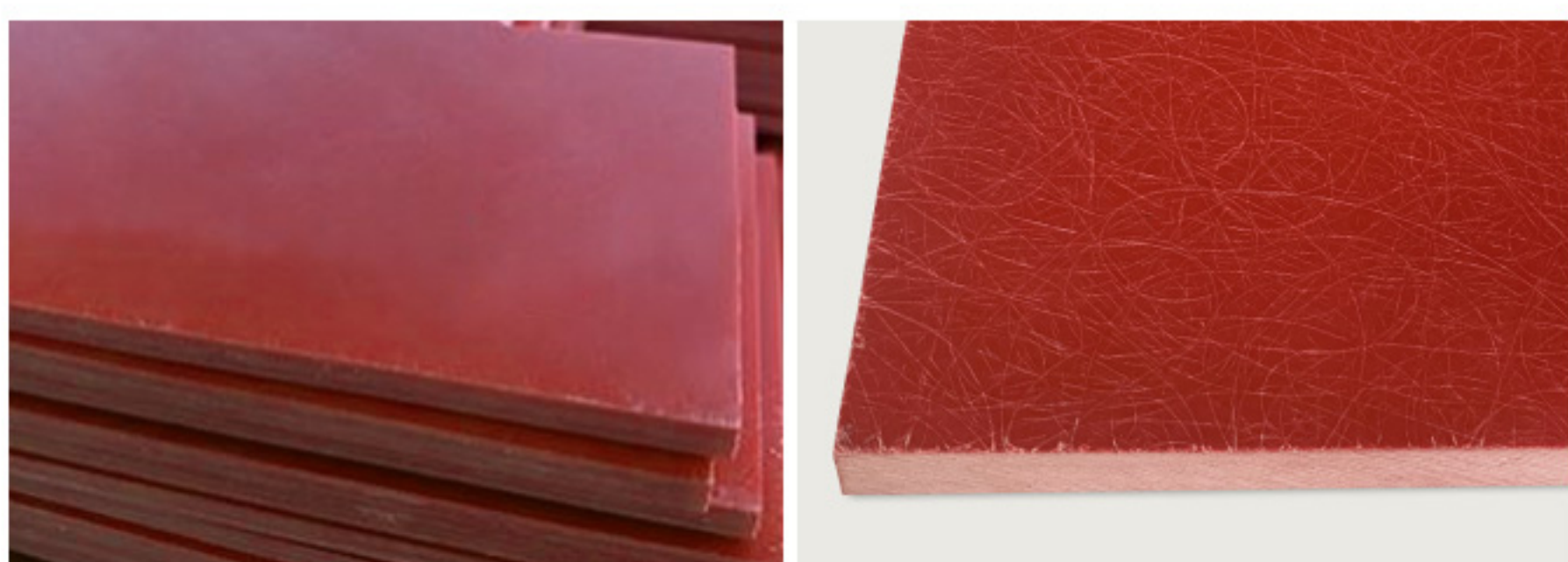


GPO-3 Thermoset Sheet



Product & Introduction

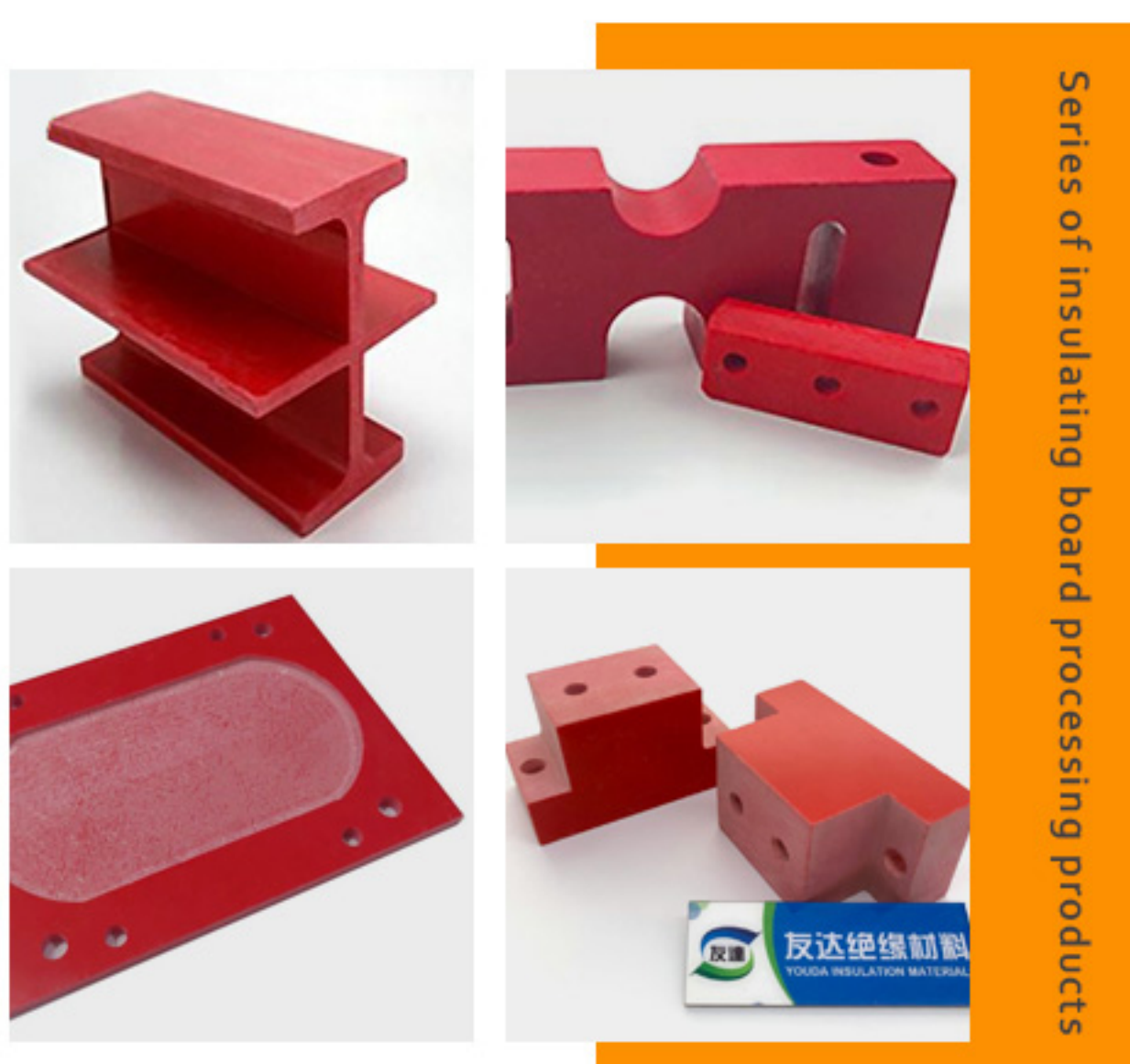
Thickness: 0.08" - 3.94"

Dimension: 40" x 80", 48" x 79", 49" x 98"

Tolerance Range: International Standard

GPO-3 sheet is a glass-reinforced thermoset polyester sheet material. GPO-3 material is strong, stiff, dimensionally stable, and impact resistant. GPO-3 material also has excellent electrical properties including flame, arc, and track resistance. It is widely used for electrical insulating applications. GPO-3 sheet is also used for mechanical applications where strength, stiffness, dimensional stability, and relatively low cost are required.

GPO-3 also called Upgm203 is typically used in-phase and end barriers, insulation support, bus bar support, mounting panels, transformers, antenna bases, and spacers.



Technical & Data

	Items	Test Method	Unit	Typical Values
Physical Properties	Density	D792	g/cm ³	1.87
	Water absorption	D570	%	≤0.21
Electrical properties	Electric strength	D149	KV/mm	13-15
	Electric strength	D149	KV	≥57
	Volume Resistivity	D257	Ω.m	≥5.61×10 ¹²
	Surface Resistivity	D257	Ω	≥3.22×10 ¹⁴
	Dielectric constant	D150	--	≤4.7
	Dissipation Factor	D150	--	0.04-0.05
	CTI	UL746A	V	≥600
	Parallel layer withstand voltage	D229	KV	60
Mechanical properties	Flexural Strength	D790	Mpa	≥259
	Flexural modulus	D790	Mpa	≥8482
	Tensile modulus	D638	Mpa	≥11721
	Shear Strength	D732	Mpa	96
	Bond Strength	D229	N	≥5000
	Impact Strength	D256	KJ/m ²	≥447
	Hardness	D785	Rockwell	≥100
	Compressive Strength	D695	Mpa	≥227
Flame Resistance performance	Temperature Index	UL746B	--	≥130
	Coefficient of temperature expansion	D696	1/K	2×10 ⁻⁵
	Heat transfer coefficient	C177	W/mK	0.274
	Toxicant(Emission)halogen etc.)	E662	--	Low
Other properties	Antimicrobial bacteria	G21-G22	--	Good



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