

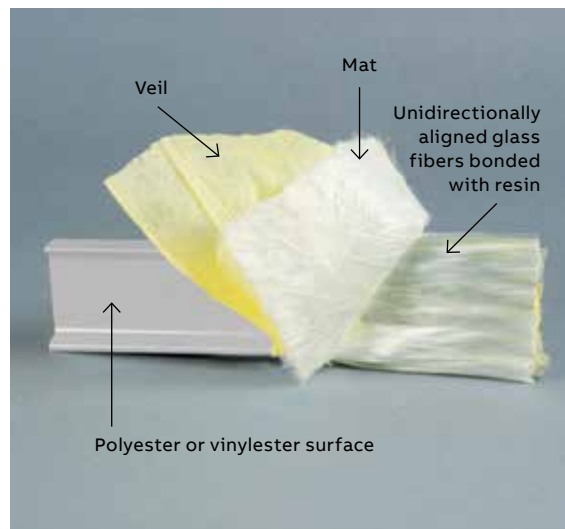
Nonmetallic - Cable tray

Overview

Why specify our cable tray?

Nonmetallic cable tray systems have been tested and proven in the harsh environment of the offshore oil and gas industry. This tray is ideally suited to withstand the corrosive conditions inherent in the petroleum, mining, and fertilizer industries. In these applications, nonmetallic tray is exposed daily to wind, weather, and saltwater.

Nonmetallic cable tray gives you the load capacity of steel plus the inherent characteristics afforded by our pultrusion technology: non-conductive, non-magnetic and corrosion-resistant. Although light in weight, their strength-to-weight ratio surpasses that of equivalent steel products.



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01 A surface veil is applied during the pultrusion process to ensure a resin rich surface for superior corrosion resistance as well as an ultraviolet exposure barrier.



Nonmetallic - Cable tray

Overview (continued)



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Table 1 – Typical properties of pultruded components gland

Properties	Test method	Unit/value	Isophthalic Polyester	
			Longitudinal	Transverse
Tensile strength	ASTM D638	psi	30,000	7,000
Tensile modulus	ASTM D638	psi x 10 ⁶	2.5	0.8
Flexural strength	ASTM D790	psi	30,000	10,000
Flexural modulus	ASTM D790	psi x 10 ⁶	1.6	0.8
Izod impact	ASTM D256	ft.-lbs/in	25	4
Compressive strength	ASTM D695	psi	30,000	15,000
Compressive modulus	ASTM D695	psi x 10 ⁶	2.5	1.0
Barcol hardness	ASTM D2583	–	50	45
Shear strength	ASTM D732	psi	5,500	5,500
Density	ASTM D1505	lbs/in ³	0.065	–
Coefficient of thermal expansion	ASTM D696	in/in/°F	5.0 x 10 ⁻⁶	–
Water absorption	ASTM D570	Max %	0.5	–
Dielectric strength	ASTM D149	V/mil (vpm)	200	–
Flammability classification	UL94	VO (both resins)	–	–
Flame spread	ASTM E-84	20 Max (both resins)	–	–

T&B nonmetallic cable tray systems are manufactured from glass fiber-reinforced plastic shapes that meet the ASTM E-84 Class 1 flame rating and self-extinguishing requirements of ASTM D-635. A surface veil is applied during pultrusion to ensure a resin-rich surface and ultraviolet resistance.

Table 1 – Typical properties of pultruded components gland

Properties	Ignition	Burning	Rating	Avg. Extent of Burning
Flame resistance (FTMS 406-2023)	75 seconds	75 seconds	–	–
Intermittent flame test (HLT- 15)	–	–	100	–
Flammability test (ASTM D635)	–	5 seconds	–	15mm