

COMPANY PROFILE



WHO ARE WE?

- ▶ Founded in 1973 in Kibbutz Neve Eitan (south of the Sea of Galilee), Pas-Gon is a manufacturer of high-quality fiberglass reinforced plastic (FRPs) profiles.
- ▶ Our profiles are produced in an advanced pultrusion process.
- ▶ About 85% of our products are exported, mainly to Europe.
- ▶ We are ISO 9001:2000 certified.

THE KEY ADVANTAGES OF WORKING WITH PAS-GON



Additional in-house services: CNC machining, drilling, subassembly



Reliable source with repeatable quality



Partial container loads



Deliveries in 3-4 weeks



Custom profiles

THE ADVANTAGES OF FIBERGLASS PROFILES



Corrosion resistant



Lightweight*



Thermal insulator



Electromagnetic transparency



Electrical insulator



99.9% antibacterial resin

*75% lighter than steel; 35% lighter than aluminum



THE BAYONET-LOCK CONNECTION

A Pas-Gon development, the BAYONET-LOCK connection guarantees durability and stability in heavy-duty applications such as active conditions.

DATA SHEET PAS-GON REBAR WITH HELICAL WINDING



GENERAL PROPERTIES

Construction made of:

- ▶ Vinyl Ester resin and E-glass direct roving
- ▶ E-glass direct rovings 4800 tex/9600 tex
- ▶ Glass content (%by weight) >75%
- ▶ Longitudinal >74%
- ▶ Helical wrapping (step50-60 mm) 4.8 gr/ m

Physical properties:

- ▶ Specific Gravity (ASTM D-792) - 2.05-2.15 (gr/cm3)

MAIN FEATURES AND ADVANTAGES



More sizes and relevant technical data available upon customers' request



Impenetrable to chloride ion and low pH chemical attack



Tensile strength greater than steel



Lighter than steel reinforcement by 75%



Transparent to magnetic fields and radio frequencies



Non-conductive (electrical and thermal)

VINYL ESTER VS. EPOXY RESIN*

Properties	Test Procedures	Minimum
		① Vinyl Ester
single shear strength	D2344	1,300 kg/cm ²
Barcol hardness	D2583	55
Di-electric strength	D149	14 kv/mm
Di-electric constant	D150	5.5
Arc resistance	D495	160 sec.
Glass content	D2584	75% _≤
Density	D792	2.2 gr/cm ³
Water absorption	D570	0.05%
Coefficient of thermal expansion in the longitudinal direction	D696	5-8 x 10-6

*Technical specifications about Vinyl ester and Epoxy resin on next page

DATA SHEET

PAS-GON REBAR

WITH HELICAL WINDING



FIBERGLASS REBARS PHYSICAL PROPERTIES (VINYL ESTER RESIN)

Rebar diameter, mm.	Catalogue number	Cross section, mm ²	Min. weight per meter (gr/m)	Tensile strength, (Mpa)	Bending strength (kg/cm ²)	Modulus of elasticity, N/mm ²
5	785	16.61	50+/- 10	1200	10,500	60,000
6	786	26.41	70+/-10	1200	10,500	60,000
8	787	51.53	110 +/- 10	1200	10,500	60,000
10	789	69.36	160 +/- 20	1200	10,000	60,000
12	790	107.51	230 +/- 20	1180	10,000	60,000
13	791	126.62	270 +/-20	1180	10,000	60,000
14	792	145.19	290+/- 20	1180	9,800	60,000
15	793	169.72	350 +/- 20	1180	9,800	60,000
16	794	193.50	390 +/- 20	1170	9,800	60,000
20	796	298.5	580 +/- 20	1170	9,500	60,000
25	797	463.53	970 +/- 30	1160	9,000	60,000
28	798	600.99	1170+/- 30	1160	9,000	60,000
32	799	784.27	1530 +/- 30	1160	8,500	60,000
40	800	1293.04	2390 +/-50	1160	8,000	60,000

Note: the data contained in this publication is reliable to the best of our knowledge, however the information is offered only as a service and PAS-GON assumes no liability as to its use.