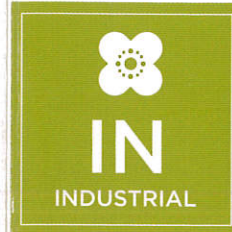


pgi

«Innovation lives here»



*Our business segments are :*



IN  
INDUSTRIAL

INDUSTRIAL  
COMPOSITES



CONSUMER  
COMPOSITES



RATION



BUILDING &  
OTHERS



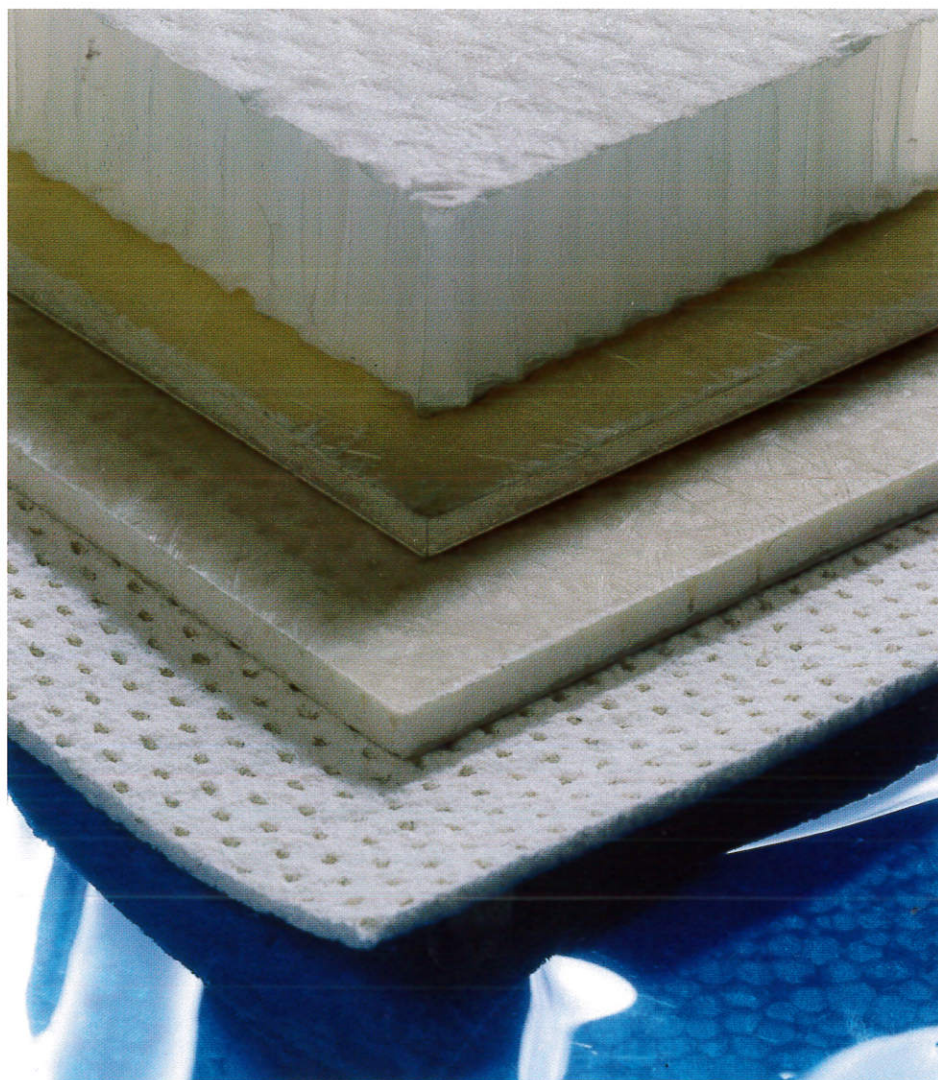
IN

INDUSTRIAL



PGI have improved its standard Matline by **NEW matline™ Plus** offering several benefits :

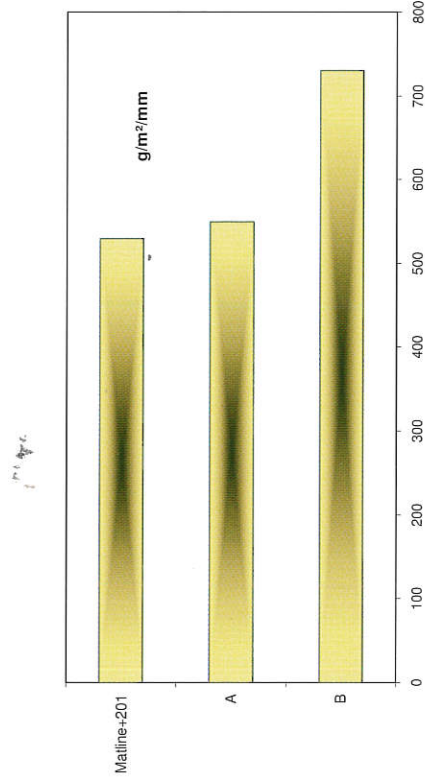
- Better dry drapability
- Reduction of resin consumption from 15 to 20%
- Better adherence on vertical application (Marine)
- Weight and cost reduction improving rigidity and impact resistance
- Better cosmetics acting as a print through blocker



**NEW matline™ Plus** is currently used as a core material or as a sub-layer in many applications : swimming pools, boats and yachts, wind mills, trailers and many more. Available in thickness from 1 to 5 mm, perforated or non-perforated form.

Working with **NEW matline™ Plus** requires no special tools or skills as it is easily moulded into any shape.

**Resin consumption vs compaction**  
**Comparatif concurrence sur consommation résine**



Typical Data / Données Nominales		Matline + 101N		Matline + 201N		Matline + 301N		Matline + 401N		Matline + 501N	
		101N	201N	301N	401N	501N					
Dry weight Poids à sec	g/m²	55	70	110	140	185					
Dry thickness Epaisseur à sec	mm	1.4	2	3	4	5					
Roll length Longueur rouleaux	lm	100	80	50	40	30					
Resin consumption Consommation résine	kg/m²	0.77	1.1	1.65	2	2.5					

Width / Largeur : 100 cm Outside diameter / Diamètre extérieur : 45/48 cm

**Laminate mechanical properties / Caractéristiques techniques du stratifié**

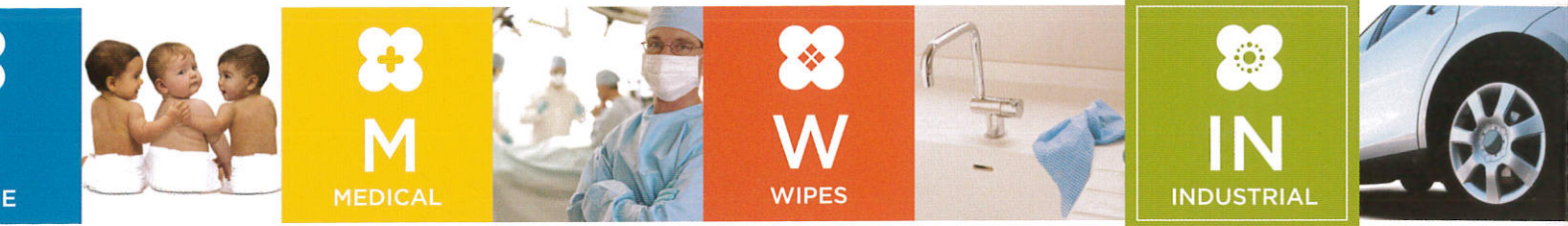
Chopped strand mat 450 g/m² - Matline - Chopped strand mat 450 g/m² / Mat 450 g/m² - Matline - Mat 450 g/m²  
(Impregnation : Matline with 600 g/m²/mm, CSM with 1000 g/m² / Imprégnation : Matline 600 g/m²/mm, Mat 1000 g/m²)

UP resin Résine Polyester	Unit Unité	Matline + 101N		Matline + 201N		Matline + 301N		Matline + 401N		Matline + 501N		Test methods Méthodes de test
		L	L	L	L	L	L	L	L			
<b>Tensile strength / Résistance à la traction</b>												
● Modulus / Module	MPa	5998	5213	4861	4240	3556						ISO 527-4
● At break / A la rupture	MPa	67,5	51,2	49,3	39,6	36,6						
● Elongement / Allongement	%	1,49	1,49	1,35	1,46	1,36						
<b>Flexural strength / Résistance en flexion</b>												
● Modulus / Module	MPa	7313	6800	6588	5500	5187						NF/EN/ISO 14125
● At break / A la rupture	MPa	195,2	150,3	141,2	81,5	89,4						
● Peak flexion / Flèche	mm	4,2	4,3	5,5	5,3	5,6						
<b>Compression modulus / Module de compression</b>	MPa	3801	3511	3157	2650	2192						NF/EN/ISO 604
<b>Shear strength / Contrainte de cisaillement</b>	MPa	12,6	8,2	7,3	6,1	5,2						NF/EN/ISO 14130
<b>Impact resistance / Résistance à l'impact</b>	kJ/m²	45,1	28,3	28,5	25	27,8						NF/EN/ISO 180
<b>Water absorption / Absorption d'eau</b>	%	< 0,51	< 0,56	< 0,37	< 0,37	< 0,25						NF/EN/ISO 62

(Tests carried out in an independant laboratory / Tests effectués par un laboratoire indépendant)

Ces informations sont communiquées à titre indicatif et peuvent être modifiées sans préavis. Elles n'impliquent aucune obligation de résultats et ne sont pas contractuelles. Matline est une marque déposée par Nordlys France appartenant au groupe PGI. These information are provided in good faith and are subject to modifications without prior notification. It does not constitute a commitment, neither a contractual document. Matline is a registered trademark of Nordlys, France, a member of PGI group.





## ***PGI : Leading the World in Engineered Fabrics***

PGI Industrial Division is providing industrial nonwovens to specific market segments where the association of its expertise, know-how, manufacturing and sourcing capabilities meets the needs of our customers. We are aiming to be your technical nonwoven specialist with production and sales facilities around the world, ensuring you the support that you are looking for.

Wherever and whenever you need it. Offering the broadest base of technologies available in the industry under one source, PGI Industrial Division is determined to be your ultimate resource in developing new products or improving existing ones. PGI's power comes within from research & development, new product technologies to people expertise.

***SATISFACTION & QUALITY GUARANTEED !***

**MATLINE<sup>+</sup>301N**

**pgi**