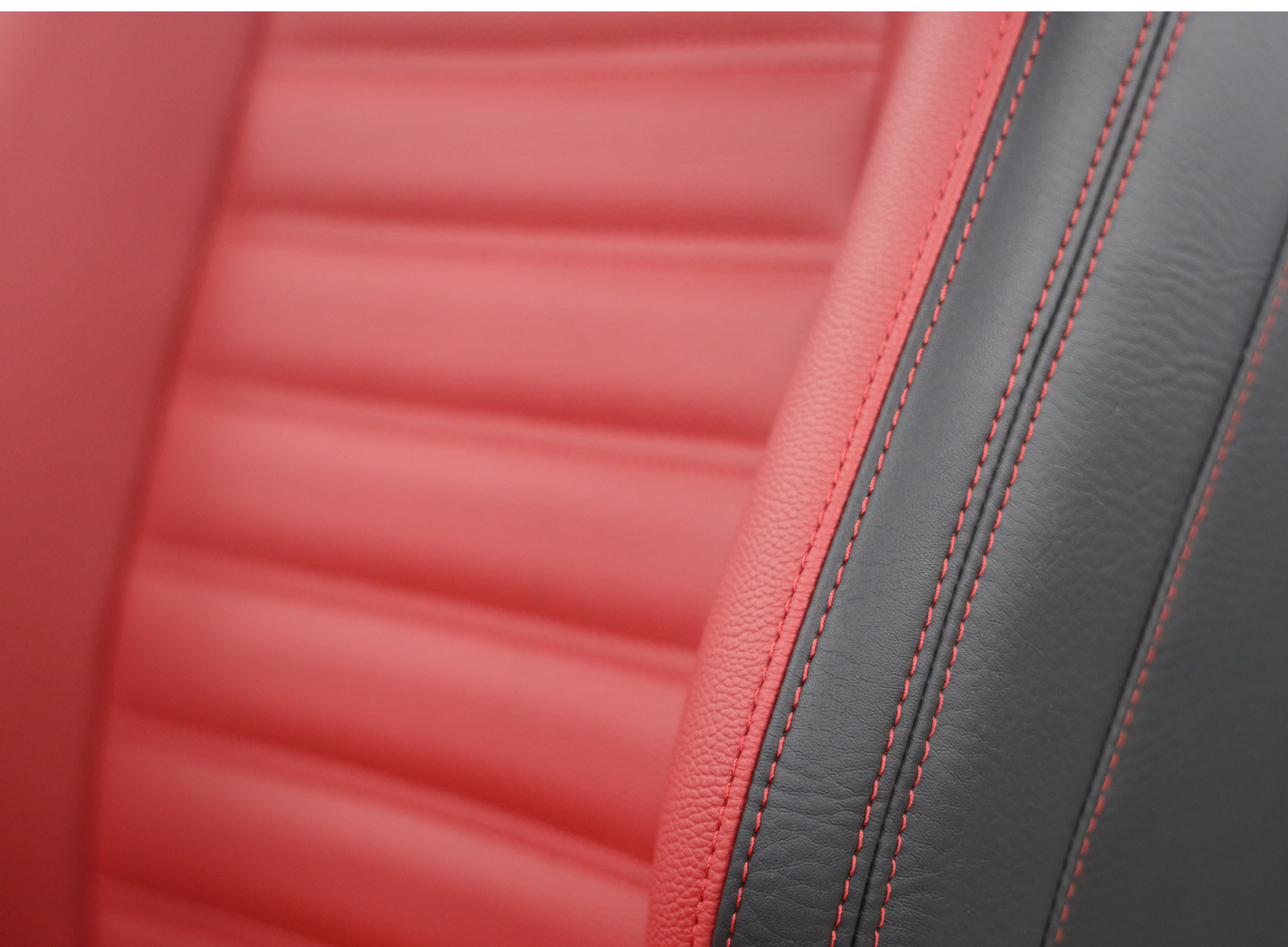


# woli

Automotive trim material for seating systems



Woli, an automotive trim material for seating systems, is one of the technical products of Geztech, a brand of Gezderi.



As specially designed on the basis of modern automotive OEM requirements,  
it is available for aftermarket,  
“where best quality is required”.

*Woli can be easily redesigned according to specifications of any OEM project,  
as each brand's material specifications are different.*

# Specific properties

- 1 3 types of different base fabric, 5 grains and 21 colors available
- 2 Automotive quality PVC for specific properties
- 3 Mechanical strenght, abrasion and flex/crack resistant
- 4 Solar light resistant
- 5 Migration and cracking free, long chain plasticizer system, long service life
- 6 Water based hydrofinish surface, special formulated for premium haptic touch
- 7 Anti-Squeak, no frictional noise
- 8 Specific softness of OEM quality
- 9 Flame retardant - FMVV 302
- 10 Very low fogging
- 11 Odor-Free
- 12 Antibacterial and antimicrobial protection
- 13 No solvent used, DMF-FREE, Toluene-Free
- 14 Free of VOC, Formaldehydes, Carbonyl Chemicals
- 15 Free of Phthalates, Heavy Metals, Carcinogenic, Allergenic and Azo Dyestuffs
- 16 BIOVYN™ Bio attributed PVC formulated (\* optional)



HIGH QUALITY



AVAILABILITY



LOW COST

# Sustainability - The Future of Planet



Low carbon emission raw material to protect the planet  
INOVYN as launched its latest generation of PVC under the brand name BIOVYN™, is the world's first commercial producer of bio-attributed PVC using a supply chain fully certified by The Roundtable on Sustainable Biomaterials (RSB).

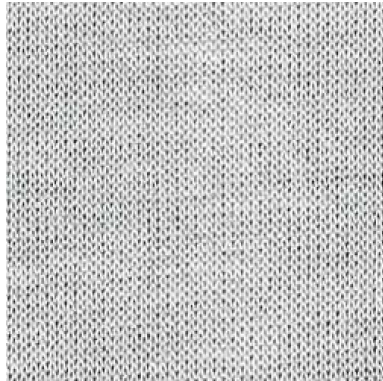
Manufactured at Rheinberg, Germany, BIOVYN™ is made using bio-attributed ethylene, *a renewable feedstock derived from biomass* that does not compete with the food chain.

BIOVYN™ is certified by RSB as delivering a 100% **substitution of fossil feedstock** in its production system, enabling a greenhouse gas saving of over 90% compared to conventionally produced PVC.

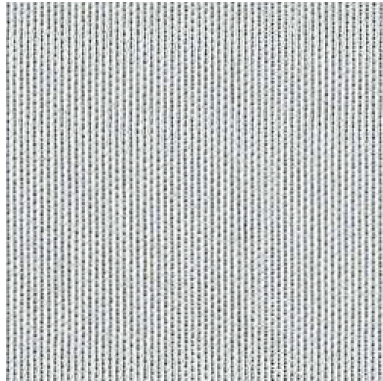
INOVYN is the supplier of  
GEZTECH for BIOVYN™  
bio-attributed PVC range



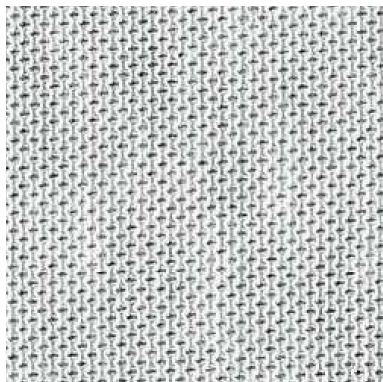
# Backing Textiles - Substrates



Knitted Tricot  
%67 Cotton - %33 Polyester



Knitted Interlock  
%100 Polyester



Knitted Pique  
%67 Cotton - %33 Polyester

Product Name Codes acc. to backing fabric

01	Knitted Tricot	1DX WOLI-TRK
02	Knitted Interlock	1DX WOLI-INT
03	Knitted Pique	1DX WOLI-PKE

# Surface Grains



NATUREL  
90138



MORLAND  
90138



MERSON  
90138



TOSCANO  
90138



KUM  
90138



NATUREL  
PERFORATED  
22152

Product Name Codes acc. to surface grain

01	Naturel	1DX WOLI-	-NTR
02	Morland	1DX WOLI-	-MRL
03	Merso	1DX WOLI-	-MRC
04	Toscano	1DX WOLI-	-TSC
05	Kum	1DX WOLI-	-KUM
06	Naturel - Perforated	1DX WOLI-	-NTR-DEL

# Colors Chart



22151



22152



22153



22154



22155



22156



42283



42286



42284



42285



31253



31252



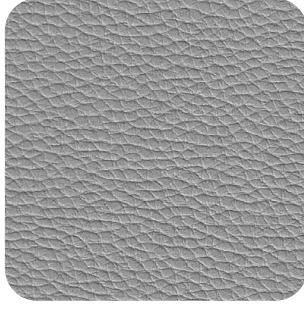
71163



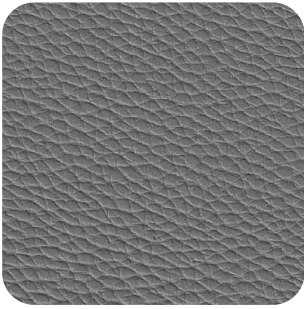
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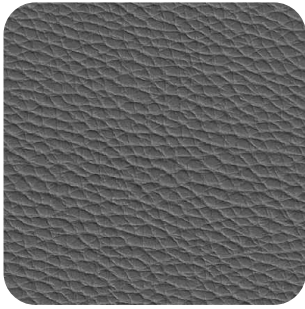
82463



91968



91966



91967



91965



91969

\* Printed colors may differ, please ask for solid samples from your sales representative

# Technical Data Sheet (TDS)

Product Name: 1DX WOLI

"Vinyl coated fabric for auto interior (seating, headrest, armrest, door/panel trim cover)"

		Backing Fabric					
			Knitted Tricot	Knitted Interlock	Knitted Pique		
Composition Data, overall							
01	Polyurethane Top Coat, polycarbonate	%	2	2	2		
02	PVC, polyvinylchloride	%	83	81	81		
03	Polyester	%	10	17	11		
04	Cotton	%	5		6		
Physical Data							
01	Width	cm		140			
02	Roll Length	mt		30			
03	Weight (± 50)	gsm	750	750	800	EN ISO 2286-2	
04	Thickness (± 0.1)	mm	1.00	1.00	1.10	EN ISO 2286-3	
Mechanical Data							
01	Tear Strength	N	L	≥ 350	≥ 450	≥ 500	EN ISO 1421-1
			W	≥ 200	≥ 150	≥ 250	
02	Elongation at Break	%	L	45-50	105-135	65-75	EN ISO 1421-1
			W	240-260	140-160	255-285	
03	Tear Strength	N	L	≥ 20	≥ 25	≥ 25	EN ISO 4674-1 Method B
			W	≥ 20	≥ 25	≥ 25	
04	Adhesion of Coating	N	L	≥ 35	≥ 30	≥ 35	EN ISO 2411
			W	≥ 35	≥ 30	≥ 35	
Performance Data							
01a	Abrasion Resistance, martindale	rub	as initial			≥ 50.000	EN ISO 5470-2
01b			after aging 72 h @ 100 °C			≥ 50.000	
02a	Ballyflex Endurance	Cycle	@ RT, as initial			≥ 100.000	EN ISO 7854
02b			@ RT, after aging 72 h @ 100 °C			≥ 100.000	
02c			@ -10°C, as initial			≥ 12.000	
03a	Color Fastness to Rubbing	GS	dry			≥ 5	EN ISO 105-X12
03b			wet			≥ 5	
04	Color Fastness to Light	GS	150 h, BST 100°C, CI 3000			≥ 4	Renault D47 1431
05	Flame Retardancy	mm/min				< 100	Renault D45 1333
06	Fogging	mg				< 2	DIN 75201 G
07	VOC, GC-MS FID	µg				≤ 300	Renault D42 3109/C
08	Formaldehyde and carbonyls	mg/kg				≤ 5	Renault D40 3004/A
09a	Odour	GS	Global intensity			≤ 2.5	Renault D49 3001
09b			Dominant			≤ 1.5	

# Technical Data Sheet (TDS)

Product Name: 1DX WOLI

“Vinyl coated fabric for auto interior (seating, headrest, armrest, door/panel trim cover)”

## Ecological Data

01	Phthalate	none	EN ISO 14389
02	Restricted Azo Dyestuff	none	EN ISO 14362-1
03	Heavy Metals	none	EN ISO 17072-2
04	Carcinogenic and Allergenic Disperse Dyestuffs	none	EN ISO 16373-2

## Product Name Codes acc. to backing fabric

01	Knitted Tricot	1DX WOLI-TRK
02	Knitted Interlock	1DX WOLI-INT
03	Knitted Pique	1DX WOLI-PKE

## References

01	EN ISO 1421-1	Rubber- or plastics-coated fabrics. Determination of tensile strength and elongation at break
02	EN ISO 4674-1 Method B	Rubber- or plastics-coated fabrics - Determination of tear resistance - Part 1: Constant rate of tear methods
03	EN ISO 2411	Rubber- or plastics-coated fabrics - Determination of coating adhesion
04	EN ISO 5470-2	Rubber- or plastics-coated fabrics. Determination of abrasion resistance Martindale abrader
05	EN ISO 7854	Rubber- or plastics-coated fabrics - Determination of resistance to damage by flexing
06	EN ISO 105-X12	Textiles. Tests for colour fastness Colour fastness to rubbing
07	Renault D47 1431	Colour fastness to artificial light - Materials and passenger compartment parts - Behaviour of the appearance to artificial light at high and medium temperatures
08	Renault D45 1333	Burning behaviour - Materials inside passenger compartment - Horizontal flammability
09	DIN 75201 G	Fogging (gravimetric) - Determination of the fogging characteristics of trim materials in the interior of automobiles; Method B (gravimetric)
10	Renault D42 3109/C	Determination of volatile organic compounds (VOC) - Vehicle passenger compartment materials, Evaluation of the quantity of volatile organic compounds (VOC) by thermodesorption/GC/MS
11	Renault D40 3004/A	Analysis of formaldehyde and other carbonyl compounds
12	Renault D49 3001	Odour test - Given off odours - Internal equipment parts - Intensity evaluation and global odour characterisation



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