materials for transportation

woli

Automotive trim material for seating systems

GEZTECH

Woli, PU/PVC coated fabric designed for automotive seating cover, is one of the technical products of Geztech, a brand of Gezderi.

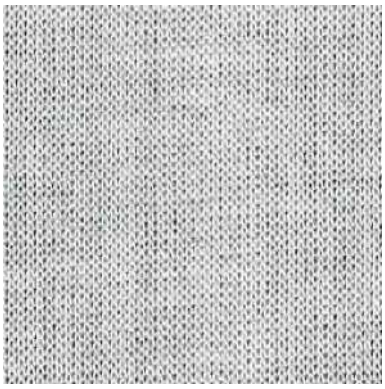
As specially designed on the basis of modern automotive OEM requirements, it is available for aftermarket “where best quality is required”.

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

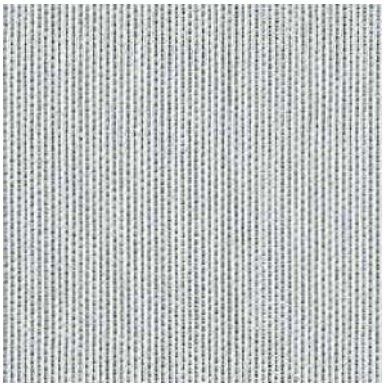
Specific properties

1. 3 types base fabric, 5 grains and 21 colors available with optional perforation
2. Automotive quality PVC resin for outstanding 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. 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 atrributed PVC (* optional)

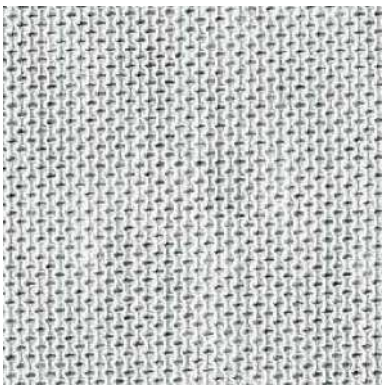
Backing Textiles - Substrates



Knitted Tricot
%50 Viscone - %50 Polyester



Knitted Interlock
%100 Polyester



Knitted Pique
%50 Viscone - %50 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

MERSO
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

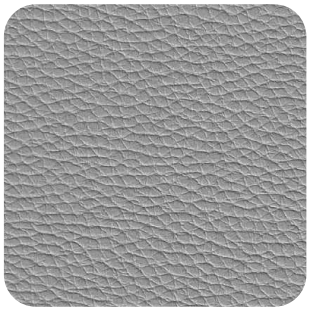

31253

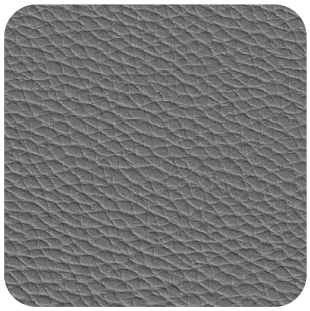

31252


71163


82464


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		%	84	82	82	
03	Polyester		%	7	16	8	
04	Viscone		%	7		8	
Physical Data							
01	Width	cm			140		
02	Roll Lenght	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	Tensile 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 ºC			≥ 50.000	
02a	Ballyflex Endurance	Cycle	@ RT, as initial			≥ 100.000	EN ISO 7854
02b			@ RT, after aging 72 h@100 ºC			≥ 100.000	
02c			@-10ºC, 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 100ºC, CI 3000			≥ 4	D47 1431
05a	Flame Retardancy	mm/min				< 100	D45 1333 (FMVSS 302)
05b		Burning rate				0	ECE R118.03 An.6,7,8
06	Fogging	mg				< 2	DIN 75201 G
07	VOC, GC-MS FID	µg				≤ 300	D42 3109/C
08	Formaldehyde and carbonyls	mg/kg				≤ 5	D40 3004/A
09a	Odour	GS	Global intensity			≤ 2.5	D49 3001
09b			Dominant			≤ 1.5	
09a	Antimicrobial protection	% reduction	Staphylococcus aureus			≥ 99	ATCC 6538 Gram+
09b	Antibacterial protection		Escherichia coli			≥ 99	ATCC 8739 Gram-

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

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	ECE R118.03 An.6,7,8	Burning behaviour of materials used in the interior construction of certain categories of Motor Vehicles (i.e. bus, public transport)
10	DIN 75201 G	Fogging (gravimetric) - Determination of the fogging characteristics of trim materials in the interior of automobiles; Method B (gravimetric)
11	Renault D42 3109/C	Determination of volatile organic compounds (VOC) - Vehicle passenger compartment materials, Evaluationof the quantity of volatile organic compounds (VOC) by thermodesorption/GC/MS
12	Renault D40 3004/A	Analysis of formaldehyde and other carbonyl compounds
13	Renault D49 3001	Odour test - Given off odours - Internal equipment parts - Intensity evaluation and global odour characterisation

Sustainability - The Future of Planet

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

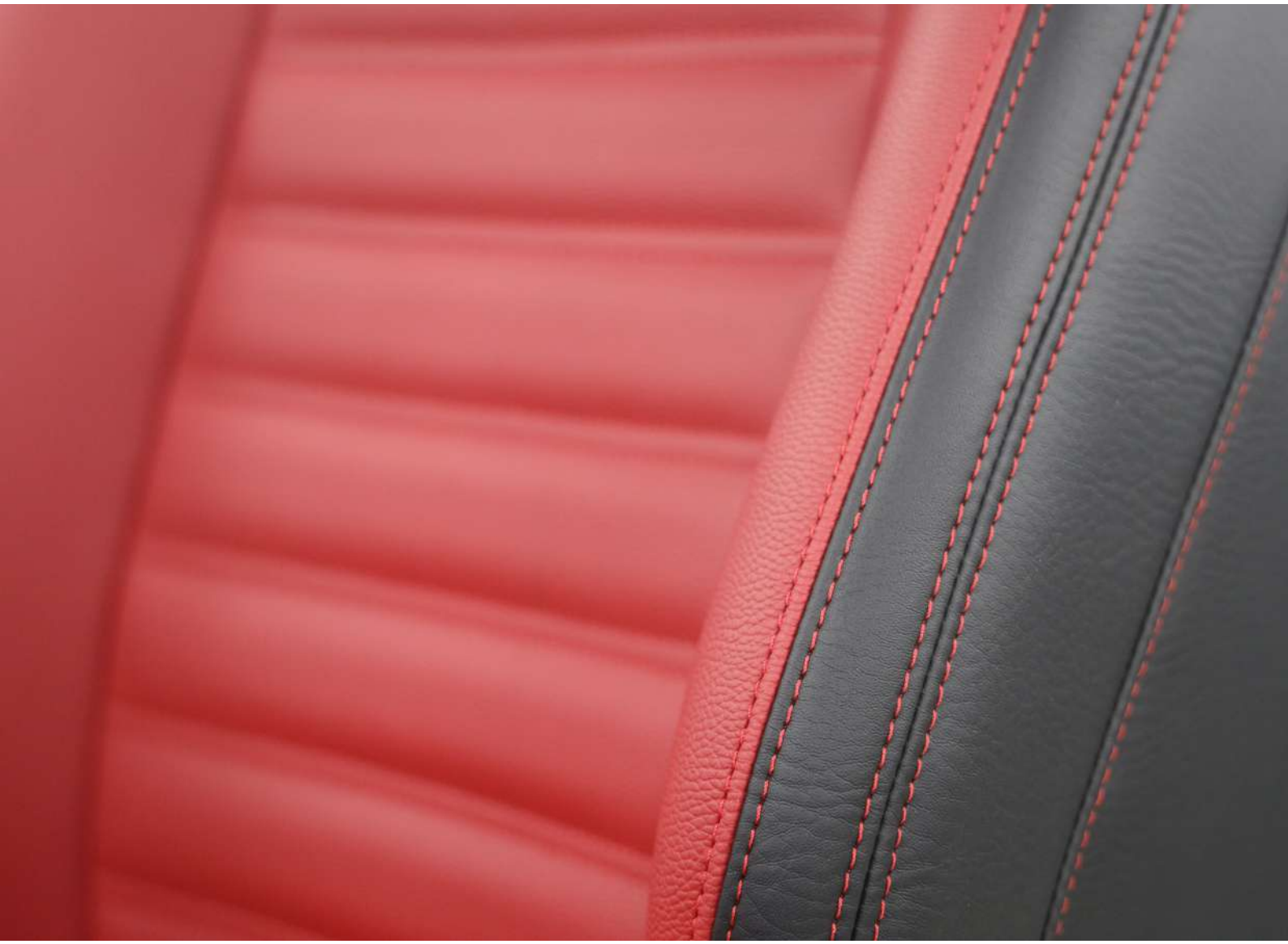
Woli can be produced with BIOVYN™ PVC as optional

biovyn
INOVYN bio-attributed PVC

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.



GEZTECH

as technical product brand of

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