



***FLOCKED PRODUCTS
FOR AUTOMOTIVE***

CARFLOCK

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CARFLOCK TAPE

<u>DENOMINATION</u>	<u>GENERAL CHARACTERISTIC</u>
CARFLOCK TAPE A12	Flock tape with polyolefinic support and black polyester flock (3,3 dtex 0,7 mm).
CARFLOCK TAPE A13	Flock tape with polyolefinic support (50 microns) and black polyester flock (3.3 dtex. x 0.7 mm.)
CARFLOCK TAPE A20	Flock tape with polyolefinic support and black polyamide flock (1,7 dtex 0,5 mm).
CARFLOCK TAPE A21	Flock tape with polyolefinic support (50 microns) and black polyamide flock (1.7 dtex x 0.5 mm)
CARFLOCK TAPE A30	Flock tape with polyolefinic support and colour polyamide flock (1,7 dtex 0,5 mm).
CARFLOCK TAPE B10	Flock tape with PVC support and black polyester flock (3,3 dtex 0,7 mm).



DESCRIPTION

Polyolefin film with black flock polyester 3,3 dtex (3 denier) and 0,7 mm (0,0276") available in a different widths (in accordance with a customer)

APPLICATIONS REQUIREMENTS

The product is making by a support with affinity to adhere to a wide variety of materials for temperature (175 – 195 °C). Between these materials are the EPDM rubber, TPOs, TPEs or polypropylene.

FUNCTIONALS REQUIREMENTS.

The product is designed to acquire the best performances after differents tests in profiles. (See the annex).

PHYSICALS-CHEMICALS CHARACTERISTICS.

The raw materials are exempts of some "Restricted materials" in accordance with EN 71 point 3.

COMPOSITION

MATERIAL	%	Control norm
Support (0,1 mm \pm 0,01mm)	45.4 % \pm 5 %	MEP-14
Adhesive	15.4 % \pm 5%	MEP-14
Flock polyester (3.3 dtex. X 0.7 mm)	39.2 % \pm 5%	MEP-14

DIMENSIONALS CHARACTERISTICAL

PROPERTY	VALUE	UNITY	CONTROL NORM
THICKNESS	0,8 \pm 0,05	mm	MEP-08
WIDTH	X \pm 0,2	mm	MEP-31

X : width tape in accordance with a customer.

TECHNICAL CHARACTERISTIC

<u>PROPERTIES</u>	<u>TEST</u>	<u>REQUIREMENTS</u>	<u>PERFORMANCE</u>
Weight	MEP-05	$220 \pm 15\% \text{ g/m}^2$	PASS
Light fastness	UNE-ISO-105B02	≥ 7	PASS
2.1.1 As-Received Condition	TL-524 47 (P-VW 3932)	$\geq \text{Grade 1}$	PASS
2.1.2 After Environmental Cycle Test PV 1200, 96 h.	TL-524 47 (P-VW 3932)	$\geq \text{Grade 2}$	PASS
2.1.3 After Aging 144 h. DIN 50 017 - KK	TL-524 47 (P-VW 3932)	$\geq \text{Grade 2}$	PASS
2.1.4 After Aging 24 h at 80° C	TL-524 47 (P-VW 3932)	$\geq \text{Grade 2}$	PASS
2.2.1 Adhesion As-Received Condition	TL-524 47 (P-VW 3932) DIN EN ISO 2409	Quality 0-1	PASS
2.1.2 Adhesion After Aging 144 h DIN 50 017-KK	TL-524 47 (P-VW 3932)	Quality 0-1	PASS

STORAGE CONDITIONS

Recommends that storage conditions are at 22° with a 50 % H.R. Under these conditions the processing performance will not be adversely affected for up to six months.

TECHNICAL CHARACTERISTIC CARFLOCK TAPE A12

DATE 1/12/2010

PROPERTIES	TEST	Requeriments	Performance
Abrasion resistance Original	TL-52417 (P-VW 3313) Par 3.11.1	> 250 cycles	PASS
Abrasion resistance Oven aged (46 h 70°C)	TL-52417 (P-VW 3313) Par 3.11.2	> 200 cycles	PASS
Abrasion resistance (H ₂ O 120 h 80°C)	TL-52417 (P-VW 3313) Par 3.11.3	> 45 cycles	PASS
Abrasion resistance Preservative agent	TL-52417 (P-VW 3313) Par 3.11.4	> 150 cycles	PASS
Abrasion resistance unpreservative agent	TL-52417 (P-VW 3313) Par 3.11.5	> 30 cycles	PASS
Fogging	SAE J1756-A/94	> 70 min	> 70 min
Flammability	ISO 3795	Máx 100 mm/min	PASS
Resistance to odor	PV 3900 / 93	Máx. 2	PASS
Resistance to weather (Xenon Arc Weatherometer)	SAE J1960	Value 4	4
Colorfastness to light	UNE EN ISO 105 B02/01	7	7
Resistance to thermal cycle (short)	WSS-M1594-E	Not loss of adhesion between fibers and rubber or deriotation	Not loss of adhesion between fibers and
Resistance to thermal cycle (long)	WSS-M1594-E	Not loss of adhesion between fibers and rubber or deriotation	Not loss of adhesion between fibers and
Resistance to crocking	WSS-M1594-E	Value 4 (dry and moist) Initail 12 N	4
Adhesion force	WSS-M1594-E	Aged 75 % initial values	PASS
Wear resistance	MS-AR-51	No base exposed	PASS
Humidity	MS-AR-51	No brittleness, adhesion loss or color change	No brittleness, adhesion loss or
Shrinkage	MS-AR-51	Max. 0,5 %	Not change in lenght
Adhesion flock to support sheet	Fiat 9.03119/02 Par. 2.5.2	> 1,5 daN/cm	PASS
Abrasion resistance	Fiat 9.03119/02 Par. 2.5.3	> 500 CYCLES	PASS

DESCRIPTION

PVC film with polyester black flock 3,3 dtex (3 denier) and 0,7 mm (0,0276") available in a different widths (in accordance with a customer)

APPLICATIONS REQUIREMENTS

The product is making by a support with affinity to adhere to a wide variety of materials for temperature (160 – 175 °C).

FUNCTIONALS REQUIREMENTS.

The product is designed to acquire the best performances after different tests in profiles. (See the annex).

PHYSICALS-CHEMICALS CHARACTERISTICAL.

The raw materials are exempts of some "Restricted materials" in accordance with EN 71 point 3.

COMPOSITION

MATERIAL	%	Control norm
Support PVC (0,17 mm \pm 0,02mm)	66 % \pm 5 %	MEP-14
Adhesive	10.4 % \pm 5%	MEP-14
Flock polyester (3.3 dtex. X 0.7 mm)	39.2 % \pm 5%	MEP-14

DIMENSIONALS CHARACTERISTICAL

PROPERTY	VALUE	UNITY	Control norm
THICKNESS	1,0 \pm 0,1	mm	MEP-08
WIDHT	X \pm 0,2	mm	MEP-31

X : width tape in accordance with a customer.

TECHNICAL CHARACTERISTIC

<u>PROPERTIES</u>	<u>TEST</u>	<u>REQUIREMENTS</u>	<u>PERFORMANCE</u>
Weight	MEP-05	220 ± 15% g/m ²	PASS
Light fastness	UNE-ISO-105B02	≥7	PASS
2.1.1 As-Received Condition	TL-524 47 (P-VW 3932)	≥ Grade 1	PASS
2.1.2 After Environmental Cycle Test PV 1200, 96 h.	TL-524 47 (P-VW 3932)	≥ Grade 2	PASS
2.1.3 After Aging 144 h. DIN 50 017 - KK	TL-524 47 (P-VW 3932)	≥ Grade 2	PASS
2.1.4 After Aging 24 h at 80° C	TL-524 47 (P-VW 3932)	≥ Grade 2	PASS
2.2.1 Adhesion As-Received Condition	TL-524 47 (P-VW 3932) DIN EN ISO 2409	Quality 0-1	PASS
2.1.2 Adhesion After Aging 144 h DIN 50 017-KK	TL-524 47 (P-VW 3932)	Quality 0-1	PASS

STORAGE CONDITIONS

Recommends that storage conditions are at 22° with a 50 % H.R. Under these conditions the processing performance will not be adversely affected for up to six months.

THECNICAL CHARACTERISTIC CARFLOCK TAPE B10

DATE 09/12/2010

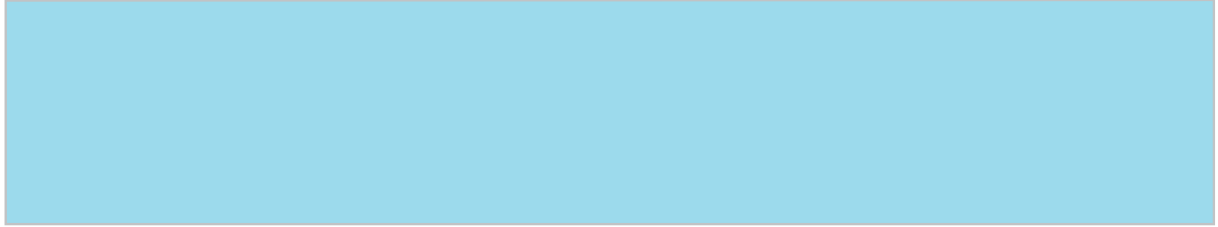
PROPERTIES	TEST	Requirements	Performance
Colorfastness to light	GM-2724M (GM 9125P)	No change	PASS
Color crock	AATCC TM8	Not less than 4	PASS
Resistance to water spotting	AATCC TM4	Slight change in color or finish	PASS
Cleanability	GM-2724M (GM 9126P)	A satisfactory rating no embrittlement, loss of adhesion or color change	PASS
Oven aging	GM-2724M (GM 9126P)		PASS
Flammability	GM-2724M (GM 9070P)	< 101,6 mm/min	PASS
Density and upright position fibers	GM 2724M	UNIFORM	PASS
Odor	SAE J1352	Máx. 3	PASS
Ozone exposure	GM 2724M (GM E60251)	Not loss of adhesion between the fibers and rubber or deterioration of the fibers	PASS
Light fastness	UNE EN ISO 105 B02/01	7	7
Adhesion requirements Method 1 Mar test	GM 2724M (GM 9210 P)	No marring or scuffing (method 1)	PASS
Method 2 knife peel test		No adhesive failure (method 2)	PASS
Fogging	GM 2724M (GM 9305P)	≥ 50	PASS

SLIT WIDHTS AND WEIGHTS

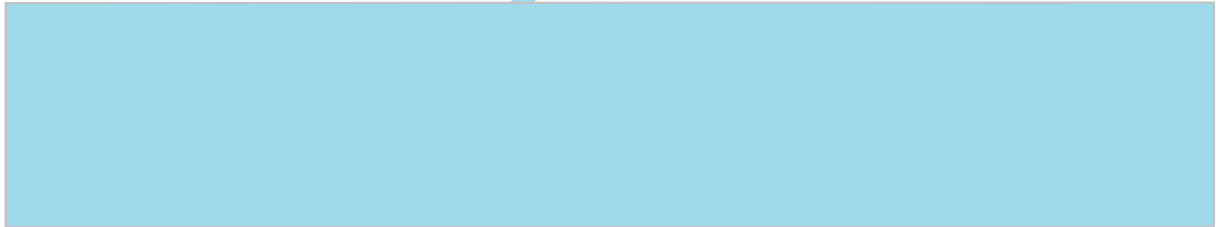
WIDHTS	LM/ SPOOL	SPOOL	MIN.ORDER
9 mm	2.500	68	170.000
10 mm	2.250	62	140.000
11 mm	2.100	56	120.000
12 mm	1.900	51	96.900
13 mm	1.800	47	85.000
14 mm	1.600	43	70.000
15 mm	1.500	40	60.000
16 mm	1.400	38	53.000
17 mm	1.300	36	45.000
18 mm	1.250	34	42.000
19 mm	1.200	32	38.000
20 mm	1.150	30	35.000

ANOTHER DATA			
SPOOL	SPOOL WEIGHT	PALET Weight	PALET
22,5 m ²	6 kg	200 kg	12 box/ 24 palet

CARFLOCK TAPE A12



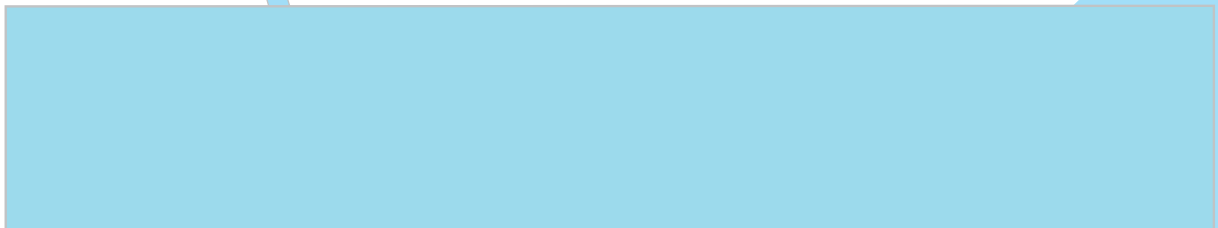
CARFLOCK TAPE A13



CARFLOCK TAPE A20



CARFLOCK TAPE A21



CARFLOCK TAPE B10



CARFLOCK COVER

DENOMINATION

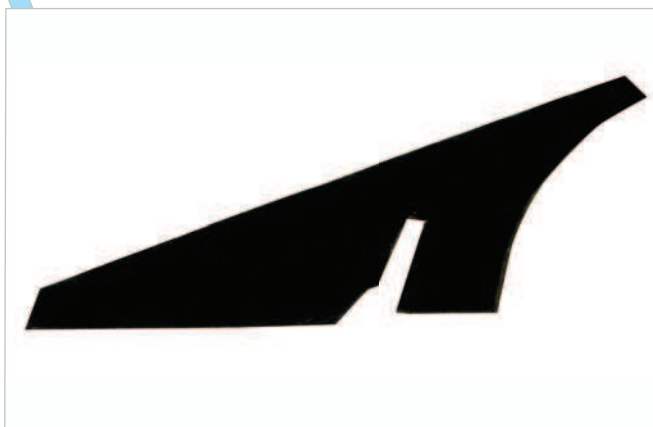
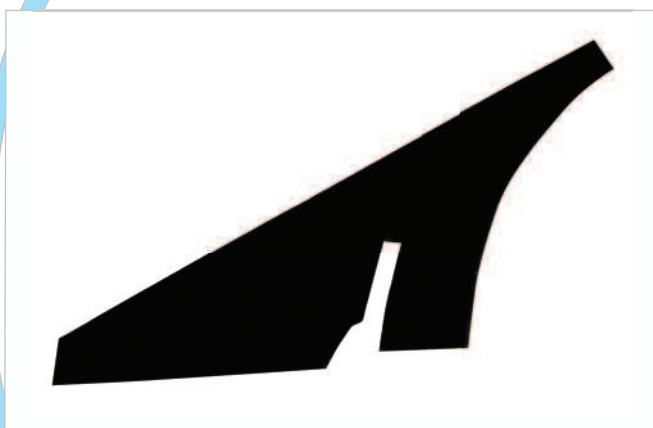
GENERAL CHARACTERISTIC

CARFLOCK COVER C10

Self-adhesive with high features, flock poliester 3,3 dtex 0,7 mm.

CARFLOCK COVER C11

Support thermoadhesive with a excellent adhesion on rubber EPDM and very good abrasion resistance. Flocking in poyliester 3,3 dtex 0,7 mm



DESCRIPTION

Self-adhesive product flocking with flock polyester black 3,3 dtex (3 denier) x 0,7 mm (0,0276")

APPLICATIONS REQUIREMENTS.

The product is making by a support self-adhesive with affinity to adhere to a wide variety of materials. Between these materials are the EPDM rubber, TPOs, TPEs or polypropylene.

FUNCTIONALS REQUIREMENTS.

The product is designed to acquire the best performances after different tests in profiles

PHYSICALS-CHEMICALS CHARACTERISTICS.

The raw materials are exempts of some "Restricted materials" in accordance with EN 71 point 3.

COMPOSITION

MATERIAL	Chemical composition	Control norm
Self adhesive support	Acrylic resin	--
Flocking adhesive	polyurethane	--
Flock	Polyester (3.3 dtex. X 0.7 mm)	--

DESCRIPTION

Thermo adhesive film flocking with a flock of polyester black (3,3 dtex (3 denier) 0,7 mm (0,0276"))

APPLICATIONS REQUIREMENTS.

The product is making for a thermo adhesive film with a excellent adhesion to a wide variety of materials. Between these materials are the EPDM rubber, TPOs, TPEs or polypropylene

FUNCTIONALS REQUIREMENTS.

The product is designed to acquire the best performances after different tests in profiles

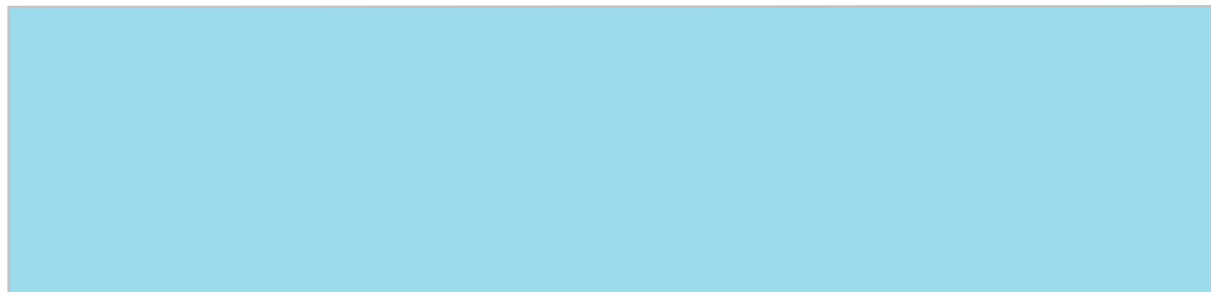
PHYSICALS-CHEMICALS CHARACTERISTICS.

The raw materials are exempts of any "Restricted materials" in accordance with EN 71 point 3.

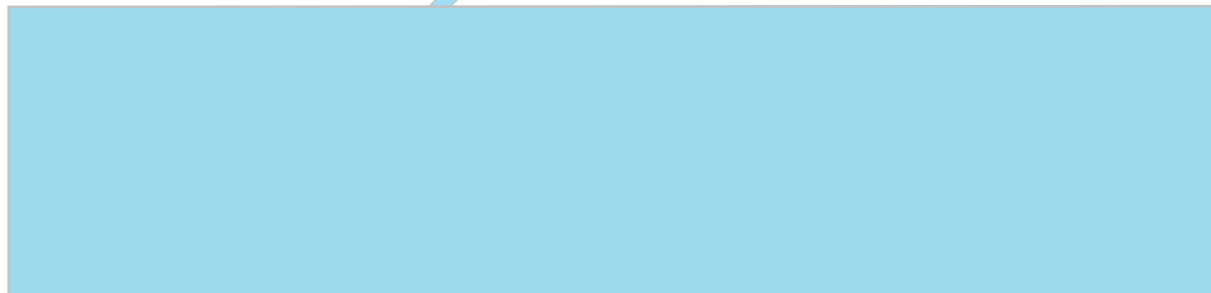
COMPOSITION

MATERIAL	Chemical composition	CONTROL NORM
Support	EAA copolymers	--
Adhesive	polyurethane	--
Flock	Polyester (3.3 dtex. X 0.7 mm)	--

CARFLOCK COVER C10



CARFLOCK COVER C11



CARFLOCK MID

DENOMINATION

CARFLOCK MID M10

GENERAL CHARACTERISTIC

PP 0.6 mm., flocking in PA 66 1.7 Dtex. x 0.6 mm. with a excellent adhesion on PP injection.



DESCRIPTION

Rigid polypropylene material flocked in polyamide in different finished and thicknesses.

APPLICATIONS REQUIREMENTS.

The product is constituted by a polypropylene support to thermoforming and later to inject in polypropylene pieces (EPDM) with the purpose of obtaining the already flocked pieces directly.

FUNTIONAL REQUIREMENTS The end item will be constituted by the pieces flocked for material of finished internal.

PHYSICALS-CHEMICALS CHARACTERISTICS.

The raw materials are exempts of some "Restricted materials" in accordance with EN 71 point 3.

COMPOSITION

1.1. COMPOSITION AND PRESENTATION

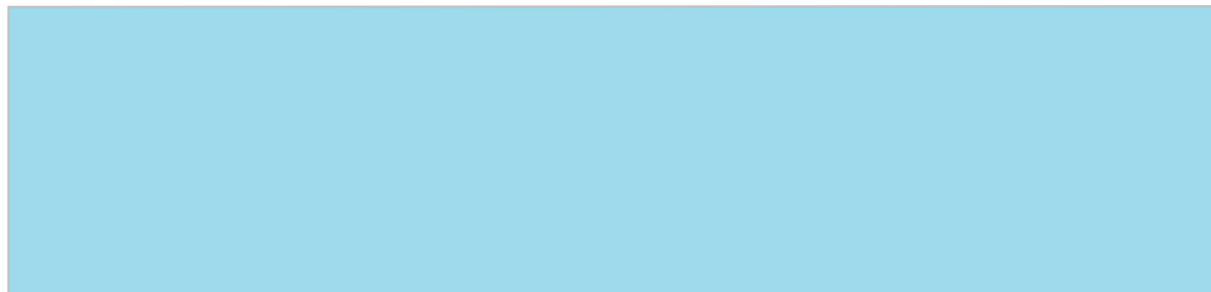
MATERIAL	VALUE
Description support	Homopolímer o copolímer of pp
Width mm	330 - 700
Thickness mm	0,4 - 1
Adhesive	Compund estirénic acrylic resins
Flock (dtex x mm)	PA 6.6 1.7 dtex x 0,6 mm (*)

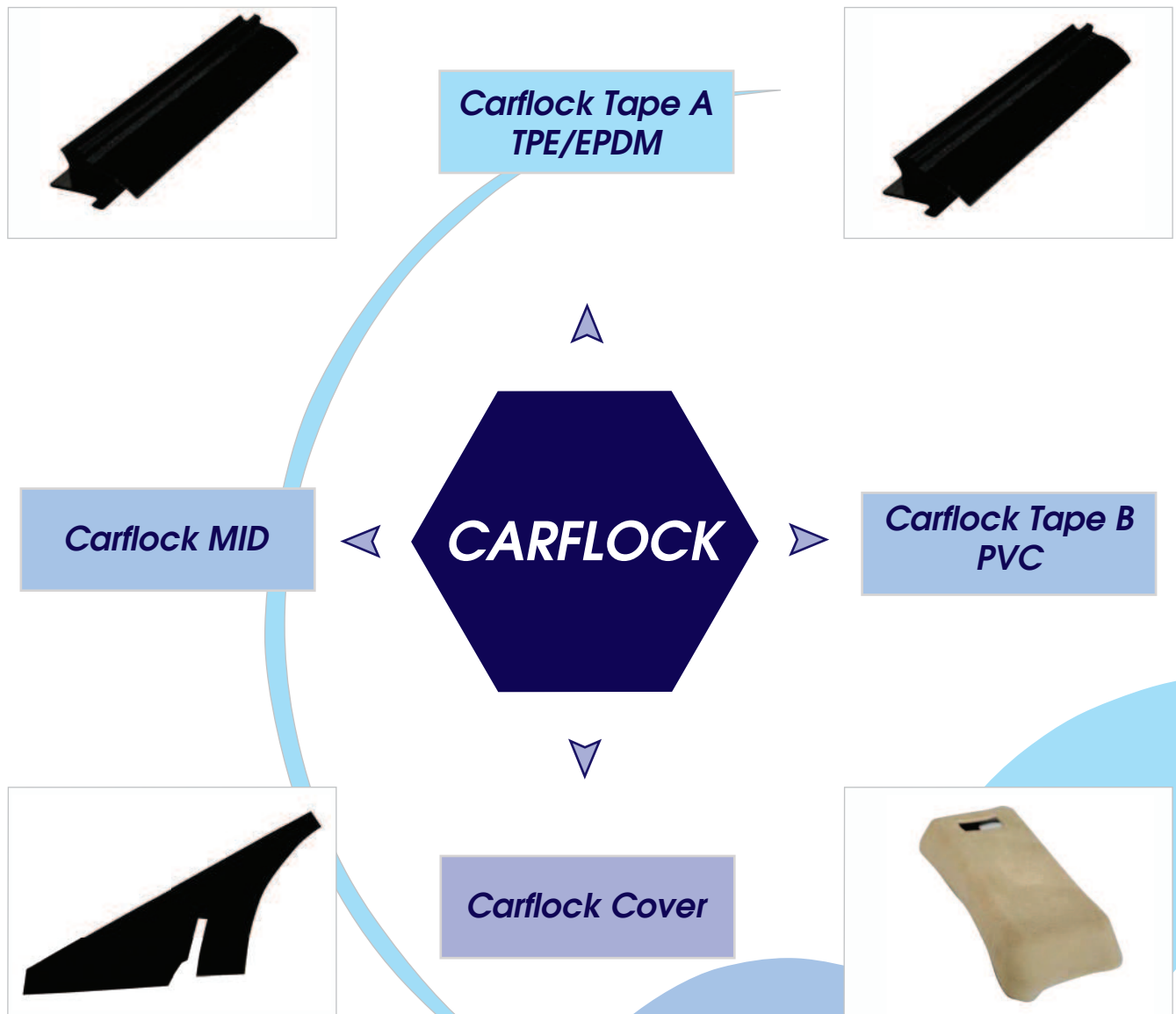
(*) It is possible to be flocked in another type of flock according to request client and technical exigencies.

1.2. REQUIREMENTS OF MATERIAL.

PROPERTIES	LIMIT	VALUE	METOD
Flock type	100 % cut flocked	pass	TL- 524 47
Flock quality Material, fiber length and fineness	Per drawing	pass	TL- 524 47
Appearance	Not unflocked areas, clumps or colour variations		TL- 524 47
Abrasion Resistance per PV 3932			
As received condition	Grade ≤ 1	≤ 1	TL-524 47 (PV 3932)
After environmental cycle test PV 1200, 96 h	Grade ≤ 2	≤ 2	TL-524 47 (PV 3932)
After aging 144 h DIN 50 017-KK	Grade ≤ 2	≤ 2	TL-524 47 (PV 3932)
After aging 24 h at 80 °C	Grade ≤ 2	≤ 2	TL-524 47 (PV 3932)
Crosscut Test per DIN EN ISO 2409 followed by adhesive tape removal			
In as-received condition	Quality 0-1	1	DIN EN ISO 2409
Alter aging 144 h DIN 50 017-KK	Quality 0-1	1	DIN EN ISO 2409
Scratch behaviour at -40°C	Grade=0	0	TL- 524 47
Clearing behavior	Easily cleaned	pass	TL- 524 47
High-temperature light aging, PV 1303, 2 to 3 cycles	Per drawing	pass	TL- 524 47

CARFLOCK MID M10





**COMPROMISE OF CONFIDENTIALITY WITH CLIENTS AT ANY P
DEVELOPMENT OR PRODUCTION.**

CONCERTED QUALITY AGREEMENT

ISO 9001:2008 CERTIFICATION

COSTUMER SATISFACTION PERIODCAL ASSESSEMENT



CERTIFICATE

Number EC-3561/08

LGAITechnological Center, S.A.
certifies that the Environmental Management System of
the organization:

PLASTIFLOCK 2003, S.L.

C/Templer Guido, 45 BIS
E-08184, Palau Solita i Plegamans

For the following activities of:
Production of flocked products for automotive, packaging and other applications.

 is in accordance with the requirements of the standard
ISO 9001:2008

INITIAL CERTIFICATION DATE: 16/05/2008
LATEST CERTIFICATION DATE: 09/05/2014
THIS CERTIFICATE IS VALID UNTIL: 16/05/2017

General Director

Jordi Brufau Redondo

Technical Director of Accreditations

Miquel Sitges Cabanas

This certificate will be regarded as valid provided that all the contract conditions for which it is part of were be fulfilled
LGAITechnological Center, S.A. Campus U.A.B., s/n, 08193 Bellaterra, Barcelona

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