



Farnam Baspar Co. Introduction of company

www.farnambaspar.ir www.farnambaspar.com

Agenda



History of the Company



Introduction of Company, Equipment and Products



Introduction of PET sheets, Benefits and applications



Introduction of Geo-membrane, Benefits and applications



Introduction of Anchored sheets, Benefits and applications



Introduction of Geo-grid, Benefits and applications



Introduction of Automotive Products



Introduction of Battery Separator



Farnam Baspar Co. launched its business by producing Vacuum Thermoforming parts in 1986 and extended it to packaging products, thereafter based on market requirements, it has developed its market by manufacturing plastic sheets made of different kind of polymeric materials and set up a cooperation relationship with domestic car manufacturers by producing automotive parts. This company has been constantly trying to have innovation to design and produce various products.



Farnam Baspar Co. designed and produced Polyethylene Anchor sheets machinery in 2000 and has joined Geo-synthetic international market by producing standard Geo-membrane.

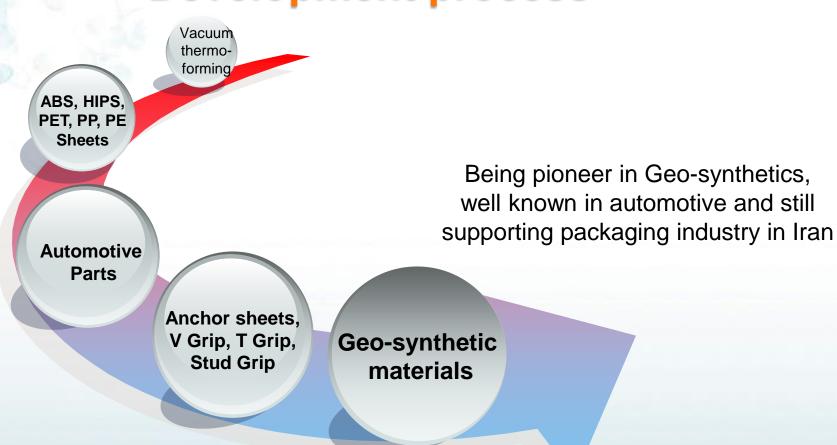


This company possesses several technologies like vacuum thermoforming, sheet extrusion, blow molding and plastic diffusion welding like high frequency, ultrasonic, hot plat welding and hot air. One of our most recent product is battery separator which is used in lead-acid batteries. To ensure to obtain the quality factors, quality assurance system and testing equipment are being used to test all products according to the customers test plan. This is the main performance of FBC which has grown our ability to earn the customer satisfaction





Development process







Certificates:

- 1. ISO 9001/2010 (Since 2000)
- 2. ISO TS 16946(Since 2003)
- 3. Certificate of quality management grade B from Bahman Khodro
- 4. Certificate of quality management grade B from SAPCO
- 5. Certificate of quality management grade B from Sazeh Gostar
- 6. Certificate of quality management grade A+ from Saipa Azin



Quality Policy

In order to achieve our goal, which is "being pioneer in the field of Polymeric sheets and automotive parts", carried out a mission:

Design and production of new automotive parts taking the advantages of skilled engineers, in order to overcome commercial difficulties.

This company believes in continuous improvement of process and products based on ISO/TS 16949:2009 standard in order to make relationships and trust.

Improve the product quality and decrease the waste products.
Identify, control and continuous improvement of effective process
Improve the engineering knowledge
Increase the staff satisfaction level.

Using participatory management



Manufacturing Products and Machineries in Abbas Abad Site



A Products





 ■ PET sheet extrusion machine able to produce Transparent, Opaque, Colored, Metalized sheets.
 Dimensions: Thickness: 200 µm to 1000 µm

Width: 250 mm to 1000 mm





■ Farnam Baspar Co. is equipped with sheet extrusion machineries and is able to produce PET, HIPS, PP, ABS & PE sheets.



HIPS machinery is able to produce 800 micron thick for packaging industries .



■ Farnam Baspar Co. entered Geo-synthetic market by launching its production line of 3-meter Geo-membrane on 2007.





Farnam Baspar Co. started the production of 7-meter Geo-membrane HDPE & LLDPE with the thickness of 0.75 up to 2.5 mm according to GM13 & GM17 specifications which is from America Geo-synthetic institute.





آزمایشگاه کارخانه عباس آباد

Farnam Baspar Co. due to the assurance of products quality, has assigned a strict Quality Control & Assurance system and established a laboratory for Geo-synthetics and automotive parts which is equipped for carrying out carbon content, carbon dispersion, OIT, tear strength, puncture strength, MFI, density, oven aging & UV tests





PET advantages

- Good thermal stability
- Good electrical properties
- Good chemical resistance
- Good erosion resistance
- Low friction factor
- High toughness
- High transparency
- Good flame resistance
- Completely recyclable
- Low impact on food



Comparison between PET & PVC sheets

Specification	Unit	PVC	PET	
Density	gr/cm ³	1.4	1.4	
Melting point	°C	180	260	
Elongation at break	%	50	120	
Tensile strength	Kgf/mm²	10	22	
Tear resistance	Kgf	8	22	
Shrinkage	7.	4-7	1-3	
Di-electric constant	7.	4.2	3.3	
O ₂ permeability	ml/m²/hr	6	3	
Water absorption	%	0.05	0.3	
Application Town	°C	-20 to 80	-70 to	
Application Temp.		-20 10 30	150	



Geo-membrane

The properties enable geo-membrane to be used in following environmental, geotechnical, civil, transportation and oil and gas products

- 1. PVC Geo-membranes (thermoplastic)
- 2. HDPE Geo-membranes (thermoplastic)
- 3. LLDPE Geo-membranes (thermoplastic)
- 4. FPP Geo-membranes (thermoplastic)
- 5. EPDM Geo-membranes (elastomer)
- 6. GCL's



Geo-membrane applications

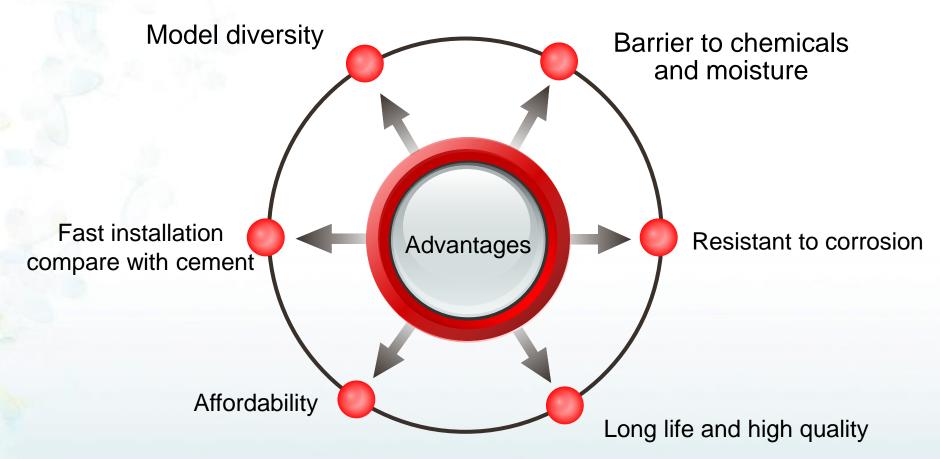


- Track-beds and roadbeds
- Landfill liners
- Leachate collection and removal system
- Fuel tanks and reservoirs liners
- Insulation of building's foundations
- Infiltrating water drainage layer
- Earth and concrete dams

- Liner and cover for potable water containments
- Liner and for ponds and artificial lakes
- Liner for pisciculture enclosures
- Liner and cover for water refinery Lagunas
- Liner and cover for chemical and petrochemical materials
- Liner for tunnels
- Water conveyance liners

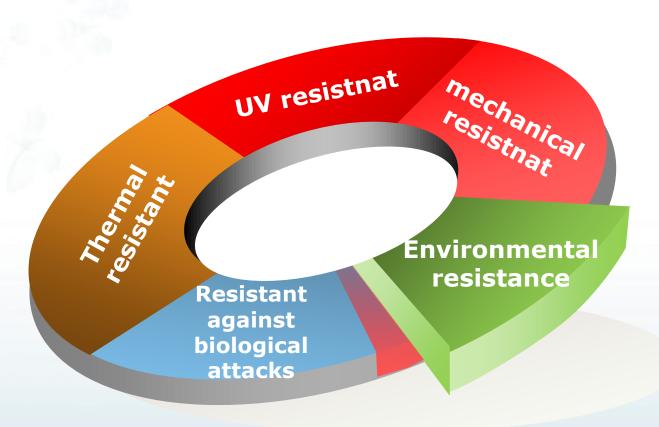


Geo-membrane benefits





Geo-membrane charactristics





Geomembrane Specifications

Properties	Test	Test Value			Testing Frequency				
	Method	0.75 mm	1.00 mm	1.25 mm	1.50 mm	2.00 mm	2.50 mm	3.00 mm	(minimum)
Thickness - mils (min. ave.)	D5199	nom. (mil)	nom. (mil)	nom. (mil)	nom. (mil)	nom. (mil)	nom. (mil)	nom. (mil)	per roll
 lowest individual of 10 values 		-10%	-10%	-10%	-10%	-10%	-10%	-10%	
Density (min.)	D 1505/D 792	0.940 g/cc	0.940 g/cc	0.940 g/cc	0.940 g/cc	0.940 g/cc	0.940 g/cc	0.940 g/cc	90,000 kg
Tensile Properties (1) (min. ave.)	D 6693								9,000 kg
yield strength	Type IV	11 kN/m	15 kN/m	18 kN/m	22 kN/m	29 kN/m	37 kN/m	44 kN/m	-
 break strength 		20 kN/m	27 kN/m	33 kN/m	40 kN/m	53 kN/m	67 kN/m	80 kN/m	
yield elongation		12%	12%	12%	12%	12%	12%	12%	
 break elongation 		700%	700%	700%	700%	700%	700%	700%	
Tear Resistance (min. ave.)	D 1004	93 N	125 N	156 N	187 N	249 N	311 N	374 N	20,000 kg
Puncture Resistance (min. ave.)	D 4833	240 N	320 N	400 N	480 N	640 N	800 N	960 N	20,000 kg
Stress Crack Resistance (2)	D 5397	300 hr.	300 hr.	300 hr.	300 hr.	300 hr.	300 hr.	300 hr.	per GRI GM-10
	(App.)								-
Carbon Black Content - %	D 4218 (3)	2.0-3.0%	2.0-3.0%	2.0-3.0%	2.0-3.0%	2.0-3.0%	2.0-3.0%	2.0-3.0%	9,000 kg
Carbon Black Dispersion	D 5596	note (4)	note (4)	note (4)	note (4)	note (4)	note (4)	note (4)	20,000 kg
Oxidative Induction Time (OIT) (min. ave.) (5)									90,000 kg
(a) Standard OIT	D 3895	100 min.	100 min.	100 min.	100 min.	100 min.	100 min.	100 min.	_
— or —									
(b) High Pressure OIT	D 5885	400 min.	400 min.	400 min.	400 min.	400 min.	400 min.	400 min.	
Oven Aging at 85°C (5), (6)	D 5721								
(a) Standard OIT (min. ave.) - % retained after 90 days	D 3895	55%	55%	55%	55%	55%	55%	55%	per each
— or —									formulation
(b) High Pressure OIT (min. ave.) - % retained after 90 days	D 5885	80%	80%	80%	80%	80%	80%	80%	
UV Resistance (7)									
(a) Standard OIT (min. ave.)	D 3895	N. R. (8)	N.R. (8)	N.R. (8)	N.R. (8)	N.R. (8)	N.R. (8)	N.R. (8)	per each
— or —									formulation
(b) High Pressure OIT (min. ave.) - % retained after 1600 hrs (9)	D 5885	50%	50%	50%	50%	50%	50%	50%	



Geomembrane installation

Preparation of substrate

Determination of layout

cutting

Primary welding

Final welding

Testing

Operation

Recovery



Preparation of substrate

- The substrate should be prepared. The soil should be compressed
- All the surface must be smooth and without any impurities. Extra moisture should be removed.





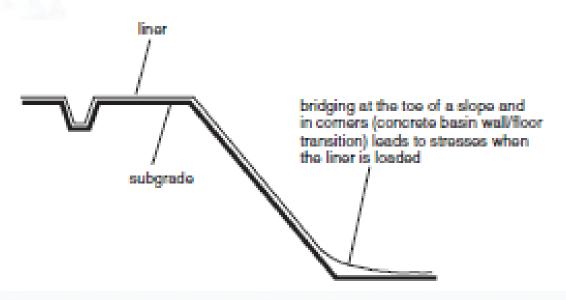
Anchor trench

- Anchor trench is designed and dig according to pond dimensions. The edges should be curved to prevent damages.
- It should be filled such that avoid damaging geo-membrane.





Anchor Trench



Schematic showing of trench

Trench depth(m)	Trench width (m)	slope length (m)
>0.5	>0.5	<10
>0.6	>0.8	10-40
>0.8	>1	>40

Trench design based on pond dimensions



Installation

- The installation should be start from the above of the pond and continue to toward wind.
- Expansion and shrinkage should be determined
- The welding has to be done at the earliest time after installation





Welding

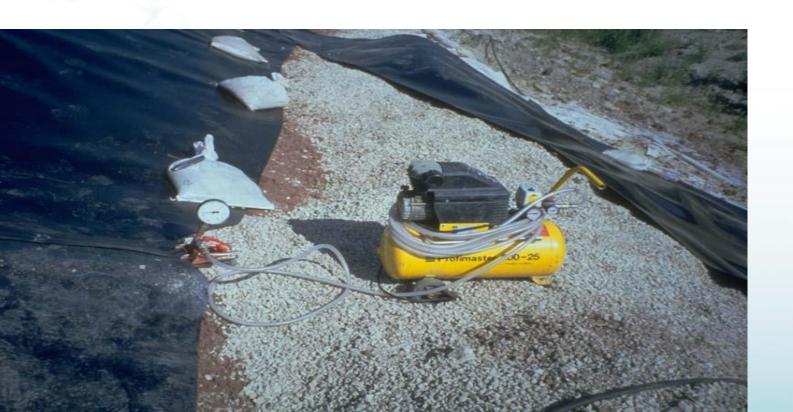
- moisture and dust must be cleaned from the geo-membrane surface. Avoid using solvent or glue for cleaning.
- Consider at least 10 cm overlap for welding.
- •The overlap should be smooth and without any fold or skew.
- •Geo-membrane should be welded toward the slope.
- •Installation should be done at 0-40 °C





Testing

- Vacuum: vacuum pressure of 28-55 Kpa is applied and bubbles of foam show the defects.
- •Air pressure: air pressure is fixed at 25 to 30 psi and after 5 min, less than 4 psi decrease in pressure should be observed.





Implementation completed













Anchored sheets



















Lining of concrete pipes with V grip liner of Farnambaspar for Sewage network of Tehran and Esfahan Cities



Anchored sheets benefits

- Increase friction with the substrate.
- Prevent slippage in steep slope.
- Impossible for algae to grow on geo-membrane.
- Barrier to chemicals. Prevent the groundwater to be contaminated.
- Improve the flow of the liquids due to its smooth surface.
- The self-cleaning of its structure lessen the amount of sediment on the pipe inner surface.



Anchored sheet application

- Liner for Concrete Water/Waste Water Conveyance Tunnels
- Liner for Concrete and Steel Water/ Waste Water Conveyance Pipes
- Liner for Subway/Urban Tunnels
- Protect Concrete Structures from Corrosion
- Liner for Water Refinery Lagunas
- Liner for Concrete Dams
- Liner for Earth Dams
- Liner for Chemical Reservoirs
- Liner for Chemical Reactors and Towers
- Liner for Heat Transfer Systems in Power Planet
- Insulation Against Water and Chemical Materials
- Fuel Tanks and Reservoirs Liners
- Liner for Marine Structures
- Ponds and Pools Liners
- Earth and Concrete Dam



TECHNICAL DATASHEET

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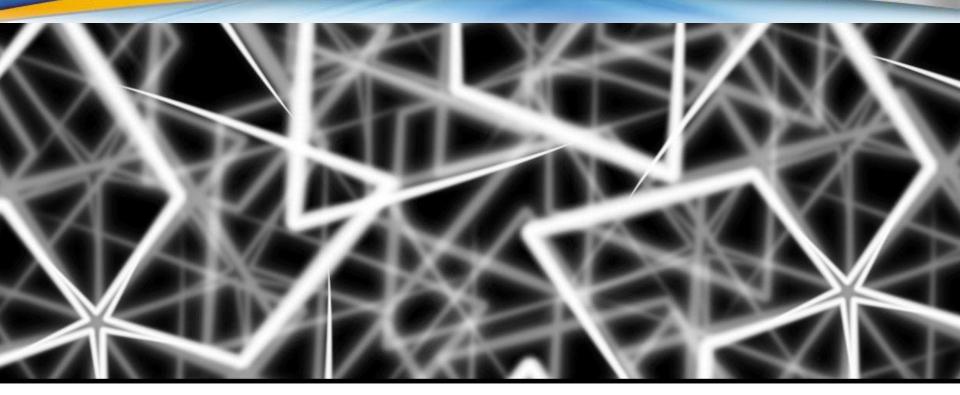
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V GRIP LINER

دوره تتاوب	Ymmoulear	واحد	روش تست	نام آزمایش	رديف
Per roll هن رول	2	mm	ASTM 05199	Thickness custar	1
Per roll هر رول	>10	mm	ASTM D7466	Grip Height ارتفاع کیرہ ھا	2
Every 90 tons هر ۹۰ تن	0.94	gr/cm3	ASTM D792	Density دانسیته	3
Every 9 tons هر ۹ دن	20	KN/m	ASTM D6693	Tensile Strength مقاومت کششی	4
Every 9 tons ش ۹ تن	100	%	ASTM D6693	Elongation at break افزایش طول در نقطه شکست	5
Every 9 tons هر ۹ دن	33	KN/m	ASTM D6693	Yield Strength مقاومت تسليم	6
Every 9 tons هر ۹ تن	12	%	ASTM D6693	Yield Elongation افزایش طول در نقطه تسلیم	7
Every 20 tons ش ۲۰ دن	250	N	ASTM D1004	Tear Strength مقاومت بارکی	8
Every 20 tons ش ۲۰ دن	535	N	ASTM D4833	Puncture Strength مقاومت سوراخ شدگی	9
Per formulation هر فرمو لاستون	300	hr	ASTM D5397	Environmental Stress Crack Resistance مقاومت محیطی در برابر ترک تنشی	10
Every 9 tons ش ۹ تن	0.8	%	ASTM D1603	Carbon Content درصد دوده	11
Every 20 tons ش ۲۰ دن	10 in cat 1,2or3	-	ASTM D5596	Carbon Dispersion پخش دوده	12
Every 90 tons ش ۹۰ تن	100	min	ASTM D3895	Oxidative Induction Time زمان القای اکسیداسیون	13
Per formulation هر فرمو لاستون	60% Retained OIT after 3 months	%	ASTM D5721 & ASTM D3895	Oven Ageing Resistance at 85 مقاومت در برابر پیرسازی در آون در دمای۸۵ °A	14
Per formulation هر فرمو لاميون	60% Retained OIT after 3 months	%	Local standards & ASTM D3895	UV Resistance UV مقاومت در برابر	15
Every 90 tons ش ۹۰ تن	ď	gr/10 min	ASTM D1238	Melt Flow Index(MFI) شاخص جریان مذاب	16

By Quality Control Laboratory of Farnam Baspar Corporation.





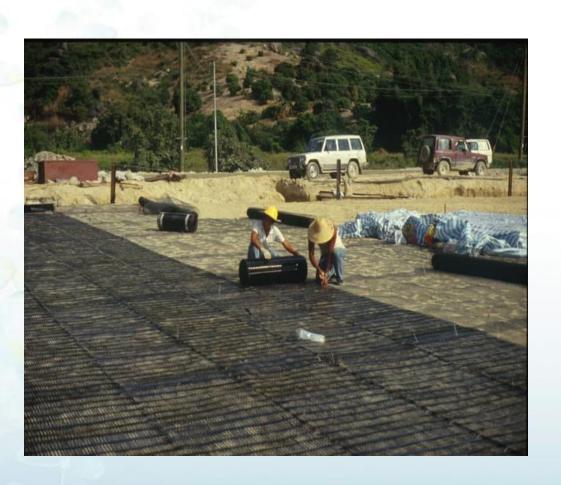
Introduction to Geo-grid and Combo-grid



Preface

- Geo-grid is a kind of geo-synthetic material which is commonly produced from Polyester and polyethylene and mainly used for reinforcement because of its high tensile strength.
- Its advantages is almost same as using geo-textiles.









Geo-grid application:

- Erosion Control
- Embankment and Soft Soils
- Highway Infrastructure
- Roadway Improvements
- Reinforced Steep Slopes
- Retaining Walls
- Landfill Construction



Geo-grid advantages:

- Reinforcement of the soil with lower price
- Fast and easy installation
- Adaption with earth topologic difficult situation
- Increasing in loading of natural substrate
- Decreasing the substructure layer thickness
- High tensile strength, low weight and good flexibility
- Increasing the life time



Geo-grid mechanical properties

TECHNICAL DATA					
PRODUCT	DESCRIPTION				
Product Name		GeoGrid			
Product Description		Biaxial Geogrid			
Raw Material	Raw Material of the Geogrid PP				
MECHA	NICAL DATA				
Nominal Tensile Strength (ASTM D6637)	MD CMD	kN/m	>30 >30		
Strain at Nominal Tensile Strength (ASTM D6637)	MD CMD	%	<10 <10		
Tensile Strength at 2 % Strain (ASTM D6637)	MD CMD	kN/m	>4 >4		
Tensile Strength at 5 % Strain (ASTM D6637)	MD CMD	kN/m	>12 >12		
Mesh Size of the Geogrid		mm	50x50		
PHYSICA	L PROPERTIES				
Roll Width		cm	400		
Roll Length		m	Max : 100		

*Application : Reinforcement , Stabilisation , Filatration.

*Made In IRAN.

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Introduction of Combo-grid

- Combo-grid is a composite of geo-grid and geo-textile
- Prevent erosion in humid situation
- Filtration of polluted water
- All the advantages of geo-grid



Combo-grid mechanical properties

TECHN	ICAL DATA			
PRODUC	T DESCRIPTION			
Product Name		ComboGric	[
Product Description	No	nwoven Geotex Biaxial Geogr		
Raw Material	Raw Material of the Geotextile PP Raw Material of the Geogrid PP			
MECHA	NICAL DATA			
Mass Per Unit Area (DIN EN ISO 9864)		g/m2	600	
Nominal Tensile Strength (DIN EN ISO 10319)	MD CMD	kN/m	>30 >30	
Strain at Nominal Tensile Strength (DIN EN ISO 10319)	MD CMD	%	<10 <10	
Tensile Strength at 2 % Strain (DIN EN ISO 10319)	MD CMD	kN/m	>4 >4	
Tensile Strength at 5 % Strain (DIN EN ISO 10319)	MD CMD	k N/ m	>12 >12	
Mesh Size of the Geogrid		mm	50x50	
PHYSICA	L PROPERTIES			
Roll Width		cm	400	
Roll Length		m	Max : 60	

*Application : Reinforcement , Stabilisation , Filatration.

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Floating geo-membrane

Floating geo-membrane is used as pond cover.

- Water Evaporation
- Water Contamination
- Odor and Gas Control
- Consistent Fluid Temp.
- Algae Control
- Dilution Control
- Durable (Dimensional stability, tear resistance, seam strength)

Floating geo-membrane





Geo-drain

Geo-drain is mainly used in drainage and protecting sensitive walls against water and chemicals. Its task is to deliver the liquid to the predetermined ways and prevent it from reaching the protected surface





Manufacturing Products and Machineries in Safa Dasht Site



Some plastic injection machines up to 7.5kg.





Punching and Forming Machineries for Automotive Parts





Blow molding of product up to 20L volume capacity



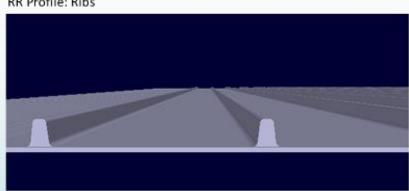


- Permeable membrane to separate anode and cathode
 - Prevent short circuit
 - Allow the ions to make connection
 - Porous polymeric layer
 - Chemically resistant against electrolytes (sulfuric acid)
 - Mechanically resistant against tensions
 - (Thermal Shutdown)
 - Effective on
 - Stored energy
 - Effective life
 - Safety



RR Profile:







حدود قابل قبول	ننيجه	روش انجام آزعون	نام آزمون آزمون	تاريخ پايان	تاريخ شروع	كد آزمون	فيى
0.9 ± 0.03	0.88mm	استاندارد مرجع : Jungfer / Sebang	Overall Thickness (mm)	• † •	• \$/\$•	۰,۱	1
0.25 ± 0.03	0.24mm	Jungfer / Sebang : استاندارد مرجع	Back Web Thickness (mm)	• ۴)۲-	• 5/1"	٠٢	۲
160.0 ± 0.5	159.54mm	استاندارد مرجع : Jungfer / Sebang	Width (mm)	• ₹)٢٠	• 6/1.	٠٢	٣
Sebang -	rrs,fr mm	استاندارد مرجع : Jungfer / Sebang	سمت سالن (Max Load Displace (mm	• * *	• 5/1*•	·i	١
Sebang*	0.101 kn	استاندارد مرجع : Jungfer / Sebang	سمت سالن (kn) Maximum Load	• * f) r ·	· f/r·	٠٥ ۽	٧
300%	400%	استاندارد مرجع : Jungfer / Sebang	سمت سالن (%) Break Elong	· f)r·	• 5/1-	.1	٨



ننبه	روش انجام آزمون	نام أزمون أزمون	تاريخ پايان	تاريخ شروع	كد آزمون	رديف
0.78(N/mm)	استاندار د مرجع : Jungfer / Sebang	سمت سالن (N/mm) Break Load / W	. 4)4.	. 4/4-	-1	١
78.45%	استاندارد مرجع : Jungfer / Sebang	سمت سالن (%) Yield Elong	.414.	٠٤/٢٠	٠٢	۲
1.22(N/mm)	استاندارد مرجع : Jungfer / Sebang	سمت سالن Yield Load/w(N/mm)	• 5/5-	. 4/4.	٠٢	٢
2.78(Mpa)	Jungfer / Sebang : استاندارد مرجع	سمت سالن (Break Stress (Mpa	• 6/4.	• 1/1"	·£	١
۲۲۹.۶۰(mm)	Jungfer / Sebang : استاندارد مرجع	سمت ديوار (Max Load Displace (mm)	· f)r-	· F/r·	*0	V
٠,٠٩۴ (kn)	استاندارد مرجع : Jungfer / Sebang	سمت ديوار (kn) Maximum Load	- 5/5-	- 4/4-	.1	٨
	0.78(N/mm) 78.45% 1.22(N/mm) 2.78(Mpa) ۲۲۹,5 (mm)	0.78(N/mm) Jungfer / Sebang : استاندارد مرجع 78.45% Jungfer / Sebang : استاندارد مرجع 1.22(N/mm) Jungfer / Sebang : استاندارد مرجع استاندارد مرجع : Jungfer / Sebang استاندارد مرجع : Trq.۶۰(mm) Jungfer / Sebang	استاندارد مرجع: Break Load / W (N/mm) استاندارد مرجع: Break Load / W (N/mm) استاندارد مرجع: 78.45% Jungfer / Sebang : ممت سالن (۱.22(N/mm) Jungfer / Sebang : استاندارد مرجع : Yield Load/w(N/mm) استاندارد مرجع : Break Stress (Mpa) Jungfer / Sebang : سمت سالن (Break Stress (Mpa) Jungfer / Sebang : استاندارد مرجع : Break Stress (Mpa) Jungfer / Sebang : ممت دیوار (mm) کیوار	1.22(N/mm) Jungfer / Sebang : استاندارد مرجع Break Load / W (N/mm) استاندارد مرجع Jungfer / Sebang : ۱.22(N/mm) Jungfer / Sebang : سمت سالن Yield Elong (%) استاندارد مرجع Jungfer / Sebang : ۱.22(N/mm) Jungfer / Sebang : استاندارد مرجع Break Stress (Mpa) Jungfer / Sebang : ۱.5۲۰ محت سالن Max Load Displace (mm) استاندارد مرجع Jungfer / Sebang : ۱۰۶۲۰ محت دیوار (mm) Jungfer / Sebang : ۱۰۶۲۰ محت دیوار (mm) محت دیوار (mm) محت دیوار (mm) محت دیوار (mm) استاندارد مرجع President (mm) استاندارد مرجع President (mm) محت دیوار (mm) محت	1.22(N/mm) Jungfer / Sebang : استاندارد مرجع Break Load / W (N/mm) استاندارد مرجع الاجارة على ۱۳۱۲ مست سالن (۱۳۱۳ کا ۱۳۱۲ کا ۱۳ ک	0.78(N/mm) Jungfer / Sebang : استاندار د مرجع : Break Load / W (N/mm) 78.45% Jungfer / Sebang : استاندار د مرجع : Yield Elong (%) Yield Load/w(N/mm) Jungfer / Sebang : استاندار د مرجع : Pir. Yield Load/w(N/mm) Jungfer / Sebang : استاندار د مرجع : Break Stress (Mpa) Jungfer / Sebang : استاندار د مرجع : Break Stress (Mpa) TYP FIF FI



حدود قابل قبول	نتبجه	روش انجام آزمون	نام آزمون آزمون	تاريخ پايان	تاريخ شروع	كد آزمون	رديف
r··%	r 99,99%	استاندارد مرجع : Jungfer / Sebang	سمت وسط (%) Break Elong	.6/1.	. 4/4.	.1	١
Sebang	1,15(N/mm)	استاندار د مرجع : Jungfer / Sebang	سمت وسط(N/mm) Break Load	- 4/4-	. 4)4.	٠,٢	۲
Sebang	9A,V9%	Jungfer / Sebang : استاندارد مرجع	سمت وسط (%) Yield Elong	- 6/4-	-6/1-	٠٢	٢
Sebang	۱٫۵۷(N/mm)	استاندارد مرجع : Jungfer / Sebang	سمت وسط Yield Load/w(N/mm)	-17-	. 4/4.	·t	١
Sebang .	v,44(Mpa)	Jungfer / Sebang : استاندار د مرجع	سمت وسط (Mpa) Break Stress	·F/r·	. 4/4.	-6	٧
Sebang	·,177F(kn)	Jungfer / Sebang : استاندارد مرجع	سمت وسط (kn) Maximum Load	. 1/1-	. 6/1	-1	٨







Battery Separator production line



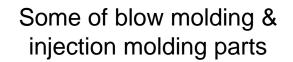




Battery Separator production line









Samand & Peugeot Acceleration cable Control part

the middle tube in 405 & Samand ventilator



Samand radiator ventilator case



High frequency welding parts



Front Peugeot 405 Door Trim Panel (Brown)



Front Peugeot 405 Door Trim Panel (Black)





405 trunk cover



206 trunk cover



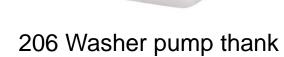
Some of blow molding parts



405 washer pump thank



Peykan Washer pump





Samand Washer pump





Impact Test Apparatus



Oven for filler Content Measurement

Safa Dasht Laboratory



Tensile strength Apparatus



Flame test Apparatus



Hardness Apparatus



Warehouse





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Thanks for your attention.