

Model	Unit	Quantity
 TECTASEAL New Composite (Width: 2-2.1 meters)	set	1
New Composite (2-2.1m Width)	set	1
New Homogenizing (2-2.1m Width)	set	1
New Homogenizing (1.2-1.3m Width)	set	1

SYSTEM OVERVIEW | NEW ZEALAND ENQUIRY EDITION

TPO / PVC Roofing System Overview

A source-image edition using product and factory imagery supplied by our production partner.

(2-2.1m Width)

Right: 180 Single-Screw 2m Homogenizing Production Line
 Left: 150 Single-Screw 1.2m Homogenizing Production Line



150 Single-Screw Homogenizing Production Line (2-2.1m W



MANUFACTURED BY OUR PRODUCTION PARTNER

Commercial information only. Final product specification and system compliance are subject to written confirmation.

Twin-screw pellet and
 powder processing mode

AT A GLANCE

Commercial basis and actual production source imagery

Commercial terms reflect the current enquiry; the image below is extracted from the production partner's supplied TPO presentation.

TPO THICKNESS

1.2 mm and 1.5 mm
Requested quotation options.

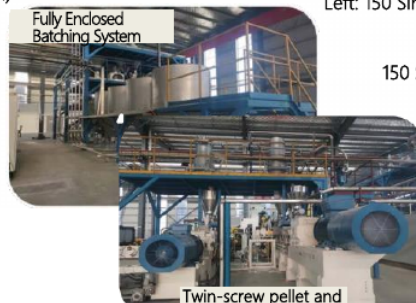
MOQ & LEAD TIME

5,000 m² MOQ
About 10 working days after final confirmation; order dependent.

No.		Model	Unit	Quantity
1	Thermoplastic Polyolefin (TPO) Production Line	85 Twin-Screw Composite Production Line (Width: 2-2.1 meters)	set	1
2		95 Twin-Screw Composite Production Line (2-2.1m Width)	set	1
3		150 Single-Screw Homogenizing Production Line (2-2.1m Width)	set	1
4		180 Single-Screw Homogenizing Production Line (1.2-1.3m Width)	set	1



95 Twin-Screw Composite Production Line (2-2.1m Width)



Right: 180 Single-Screw 2m Homogenizing Production Line
Left: 150 Single-Screw 1.2m Homogenizing Production Line

150 Single-Screw Homogenizing Production Line (2-2.1m W



Production partner source excerpt - TPO production equipment and factory imagery.

TECTASEAL support: TECTASEAL coordinates the customer offer, product configuration, documentation, export logistics and commercial communication. Manufacturing is completed by our selected production partner.

PVC membrane configurations shown in the supplied presentation

The following images are direct excerpts from the factory PDF, not generated product illustrations.

Polymer waterproof membrane manufactured via co-extrusion calendaring, using polyvinyl chloride resin and DINP plasticizer as base materials, supplemented with additives such as antioxidants and light stabilizers. The product is classified by composition into five types: homogeneous sheet (Type H), polyester fabric reinforced (Type P), fiber-backed (Type L), glass fiber reinforced (Type G), and glass fiber reinforced with backing (Type GL). Overlaps are joined by hot-air welding.



Source excerpt - PVC product types and membrane roll imagery supplied by the production partner.

Hot-air welding

The laps are joined by hot-air welding. The seams feature high peel strength, forming a safe and reliable waterproof sealing layer.



Energy Saving & Environmental Protection

The light-colored surface features excellent reflectivity, reflecting most solar radiation and reducing energy consumption.



Corrosion Resistance

It has excellent resistance to chemical and biological corrosion, meeting the requirements for use in environments with acids, alkalis, salts and other corrosive conditions.



Excellent Flame Retardant Performance

PVC waterproof membrane has inherent excellent flame retardancy and is self-extinguishing when removed from fire.

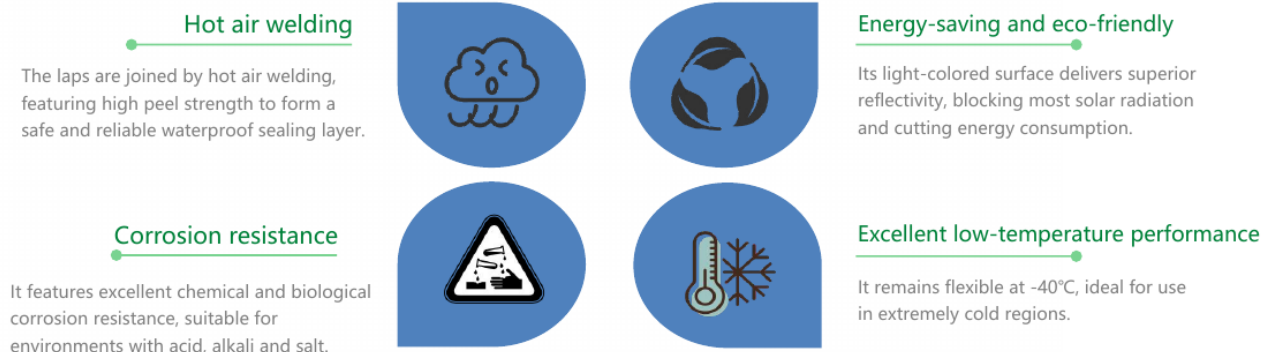


Source excerpt - factory-stated PVC features. Exact performance remains subject to product-specific evidence.

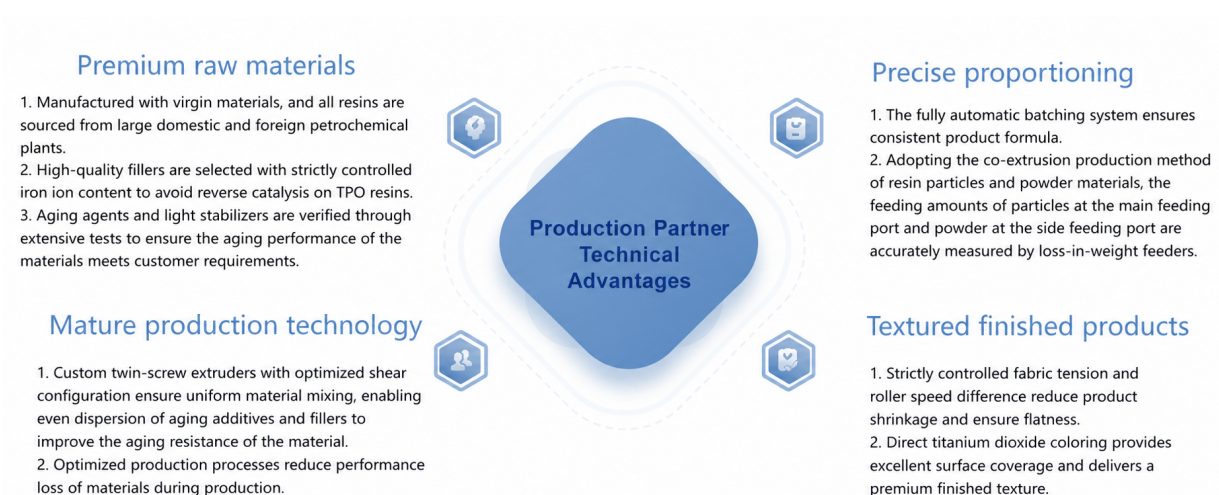
Range shown by the source: homogeneous, polyester-reinforced, fibre-backed, glass-fibre-reinforced and glass-fibre-reinforced with backing. Confirm the exact quoted configuration.

TPO features and technical positioning

Product-orientation excerpts from the supplied technical presentation. The final configuration and corresponding technical data will be confirmed for each project.



Source excerpt - production partner's TPO feature summary.



Source excerpt - production partner's technical-advantage summary.

For quotation: confirm thickness, colour, reinforcement/backing, roll size, installation method and the exact supporting technical data sheet.

Raw-material and manufacturing excerpts

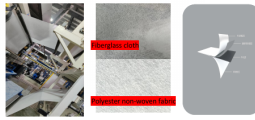
The supplied excerpts provide an overview of the material and production approach. Project documentation will be aligned with the final selected product.

The main raw materials for TPO membrane are sourced from renowned international enterprises including **China Korea Petrochemical**, **Lyondellbasell**, **Exxon Mobil Corporation** and **BASF SE**. The TPO materials produced via imported polymerization process deliver far better aging resistance than ordinary blended modified TPO materials, featuring longer service life and superior overall performance. The reinforcement layer adopts three-dimensional polyester fabric with cross, lengthwise and diagonal fibers, which effectively enhances the physical properties, breaking strength and fatigue resistance of the sheets.



Source excerpt - partner-stated raw materials and reinforcement information.

No.		Model	Unit	Quantity
1	PVC Waterproof Membrane Production Line	80 Conical Twin-screw Compound PVC Production Line, 2m Width	set	1
2		92 Conical Twin-screw Compound PVC Production Line, 2m Width	set	1



Type GL products adopt fiberglass cloth as the middle reinforcement layer. The dense fiber structure tends to cause delamination between upper and lower layers. Production lines without dedicated

No.		Model	Unit	Quantity
1	Thermoplastic Polyolefin (TPO) Production Line	85 Twin-Screw Composite Production Line (Width: 2-2.1 meters)	set	1
2		95 Twin-Screw Composite Production Line (2-2.1m Width)	set	1
3		150 Single-Screw Homogenizing Production Line (2-2.1m Width)	set	1
4		180 Single-Screw Homogenizing Production Line (2-2.1m Width)	set	1

95 Twin-Screw Composite Production Line (2-2.1m Width)



Fully Enclosed Purifying System



Right: 180 Single-Screw 2m Homogenizing Production Line
Left: 150 Single-Screw 1.2m Homogenizing Production Line



Source excerpt - PVC production equipment.

Source excerpt - TPO production equipment.

Project confirmation: the final quotation will align the membrane configuration, production schedule, raw-material documentation and supporting technical data.

PVC and TPO specification-table excerpts

The supplied tables are reproduced as images for product selection. A project-specific English technical data sheet will accompany the confirmed configuration.

序号	项 目		指 标					
			H	L	P	G	GL	
1	中间胎基上面树脂层厚度/mm		≥	—		0.40		
2	拉伸性能	最大拉力/(N/cm)	≥	—	120	250	—	120
		拉伸强度/MPa	≥	10.0	—	—	10.0	—
		最大拉力时伸长率/%	≥	—	—	15	—	—
		断裂伸长率/%	≥	200	150	—	200	100
3	热处理尺寸变化率/%		≤	2.0	1.0	0.5	0.1	0.1
4	低温弯折性		-25℃无裂纹					
5	不透水性		0.3 MPa, 2 h 不透水					
6	抗冲击性能		0.5 kg·m, 不渗水					
7	抗静态荷载*		—		—	20 kg 不渗水		
8	接缝剥离强度/(N/mm)		≥	4.0 或卷材破坏		3.0		
9	直角撕裂强度/(N/mm)		≥	50	—	—	50	—
10	梯形撕裂强度/N		≥	—	150	250	—	220
11	吸水率(70℃, 168 h)/%	浸水后	≤	4.0				
		晾干后	≥	-0.40				

序号	项 目		指 标				
			H	L	P	G	GL
12	热老化 (80℃)	时间/h	672				
		外观	无起泡、裂纹、分层、粘附和孔洞				
		最大拉力保持率/%	—	85	85	—	85
		拉伸强度保持率/%	≥	85	—	85	—
		最大拉力时伸长率保持率/%	—	—	80	—	—
		断裂伸长率保持率/%	≥	80	80	—	80
13	耐化学性	低温弯折性	-20℃无裂纹				
		外观	无起泡、裂纹、分层、粘附和孔洞				
		最大拉力保持率/%	—	85	85	—	85
		拉伸强度保持率/%	≥	85	—	85	—
		最大拉力时伸长率保持率/%	—	—	80	—	—
		断裂伸长率保持率/%	≥	80	80	—	80
14	人工气候 加速老化	低温弯折性	-20℃无裂纹				
		时间/h	1500 ^a				
		外观	无起泡、裂纹、分层、粘附和孔洞				
		最大拉力保持率/%	—	85	85	—	85
		拉伸强度保持率/%	≥	85	—	85	—
		最大拉力时伸长率保持率/%	—	—	80	—	—
		断裂伸长率保持率/%	≥	80	80	—	80
		低温弯折性	-20℃无裂纹				
		时间/h	1500 ^a				
		外观	无起泡、裂纹、分层、粘附和孔洞				
		最大拉力保持率/%	—	85	85	—	85
		拉伸强度保持率/%	≥	85	—	85	—
		最大拉力时伸长率保持率/%	—	—	80	—	—
		断裂伸长率保持率/%	≥	80	80	—	80

Source excerpt - PVC standard specification table.

序号	项 目		指 标		
			H	L	P
1	中间胎基上面树脂层厚度/mm ≥		—		0.40
2	拉伸性能	最大拉力/(N/cm) ≥	—	200	250
		拉伸强度/MPa ≥	12.0	—	—
		最大拉力时伸长率/% ≥	—	—	15
		断裂伸长率/% ≥	500	250	—
4	热处理尺寸变化率/% ≤		2.0	1.0	0.5
5	低温弯折性		-40℃无裂纹		
6	不透水性		0.3 MPa,2 h 不透水		
7	抗冲击性能		0.5 kg·m,不渗水		
8	抗静态荷载*		—	—	20 kg 不渗水
9	接缝剥离强度/(N/mm) ≥		4.0 或卷材破坏	3.0	
10	直角撕裂强度/(N/mm) ≥		60	—	
11	梯形撕裂强度/N ≥		—	250	450
12	吸水率(70℃ 168 h)/% ≤		4.0		

13	热老化 (115℃)	时间/h	672		
		外观	无起泡、裂纹、分层、粘附和孔洞		
		最大拉力保持率/%	—	90	90
		拉伸强度保持率/%	≥	90	—
		最大拉力时伸长率保持率/%	—	—	90
		断裂伸长率保持率/%	≥	90	90
14	耐化学性	低温弯折性	-40℃无裂纹		
		外观	无起泡、裂纹、分层、粘附和孔洞		
		最大拉力保持率/%	—	90	90
		拉伸强度保持率/%	≥	90	—
		最大拉力时伸长率保持率/%	—	—	90
		断裂伸长率保持率/%	≥	90	90
15	人工气候 加速老化	低温弯折性	-40℃无裂纹		
		时间/h	1500 ^a		
		外观	无起泡、裂纹、分层、粘附和孔洞		
		最大拉力保持率/%	—	90	90
		拉伸强度保持率/%	≥	90	—
		最大拉力时伸长率保持率/%	—	—	90
		断裂伸长率保持率/%	≥	90	90
		低温弯折性	-40℃无裂纹		

Source excerpt - TPO standard specification table.

Next step: select the preferred membrane configuration so the corresponding TECTASEAL-labelled SKU and English technical data sheet can be prepared.

From technical confirmation to a CIF offer

A short confirmation sequence keeps product screenshots, specifications and pricing aligned.

01 PROJECT BRIEF

Port, area, membrane, thickness, colour, reinforcement and accessories.

02 SOURCE DOCUMENT MATCH

Match the quoted SKU to the partner's signed data sheet and available evidence.

03 CIF QUOTATION

Price after quantities, roll format, packaging and destination are confirmed.

04 SAMPLE / SUBMITTAL

Agree sample, data sheets, evidence pack and any project review.

05 ORDER / PRODUCTION

Indicative MOQ 5,000 m²; about 10 working days after final confirmation.

06 SHIPMENT SUPPORT

Provide agreed commercial, packing and quality documents.

Recommended next step: share the contact person's WhatsApp/phone number and the New Zealand destination port so the exact product and document set can be confirmed.

Available after product and system confirmation

Applicable technical documentation is prepared after the project requirements and exact product configuration are confirmed.

TECHNICAL DATA SHEET

Product identity, construction, thickness, dimensions and declared properties for the selected SKU.

INSTALLATION GUIDANCE

Welding, preparation, attachment and detail guidance for the confirmed membrane configuration.

PRODUCT TEST DOCUMENTS

Project-relevant reports corresponding to the confirmed product and system configuration.

SYSTEM / PROJECT REVIEW

Assembly-specific evidence checked against the proposed deck, insulation, attachment and accessories.

QUALITY DOCUMENTS

Agreed batch or shipment quality records supplied at the stage stated in the final quotation.

ACCESSORY SCHEDULE

Confirmed dimensions, materials, compatibility and quantities for the coordinated roofing details.

Project document set: the applicable technical data, installation guidance, product documents and quality records will be matched to the confirmed membrane and proposed roof-system configuration.