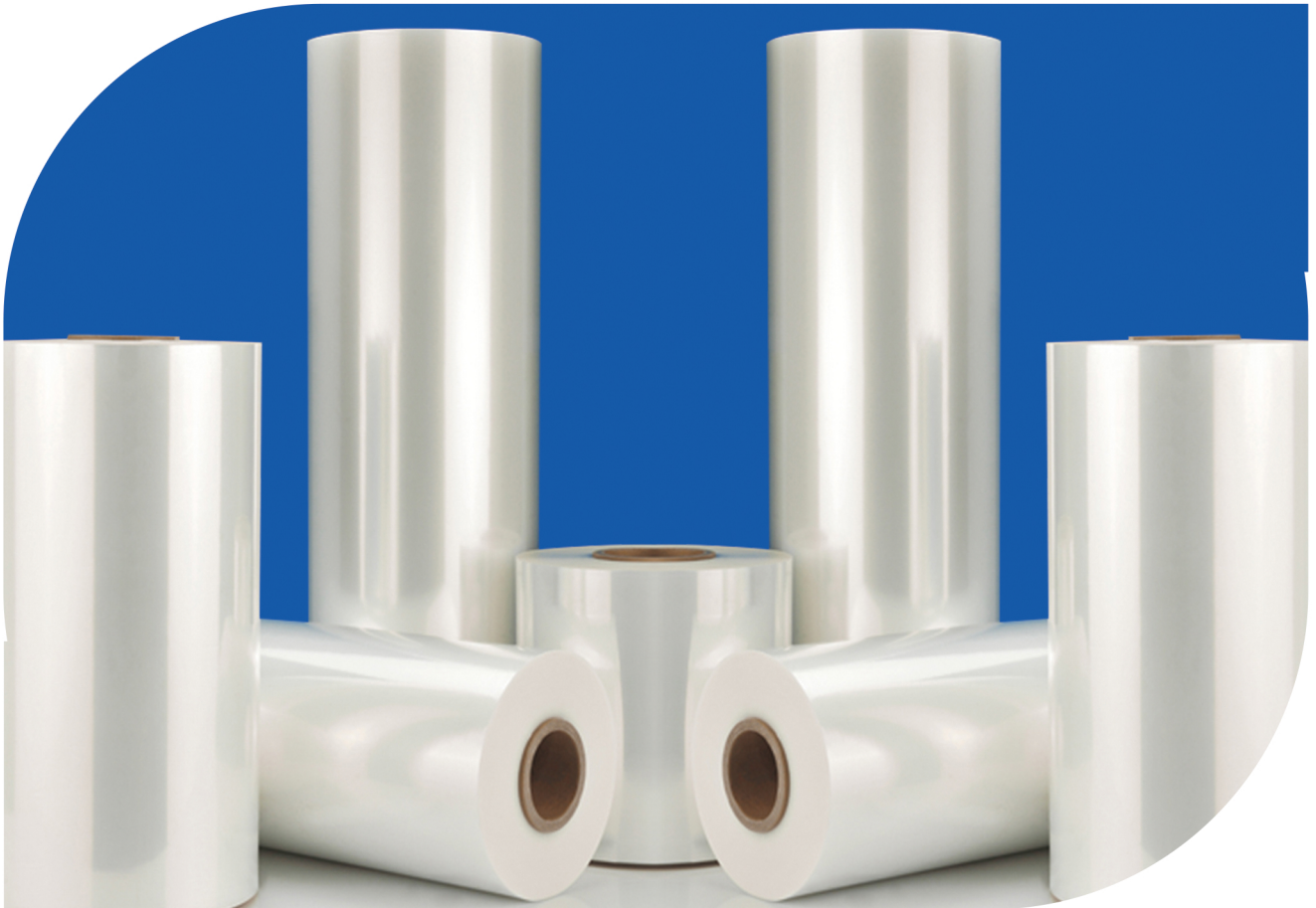




# LQ-Polyolefin Shrink Film



# LQG101 Polyolefin Shrink Film



G101 Polyolefin Shrink Film is a strong, high clarity, biaxially oriented, of heat shrinkable film with stable and balanced shrinkage. This film has a soft touch and will not become brittle at normal freezer temperatures.

G101 also exhibits corrosion free sealing with no fumes or wire build up. It is a cost effective non-crosslinked film that works easily on most shrink packaging machines.

**Thickness: 12 micron, 15 micron, 19 micron, 25 micron, 30 micron.**



TEST ITEM		UNIT	ASTM TEST	TYPICAL VALUES					
THICKNESS				12um	15um	19um	25um	30um	
<b>TENSILE</b>									
Tensile Strength (MD)	N/mm <sup>2</sup>	D882		130	125	120	110	105	
Tensile Strength (TD)			125	120	115	105	100		
Elongation(MD)	%		110	110	115	120	120		
Elongation (TD)			105	105	110	115	115		
<b>TEAR</b>									
MD at 400gm	gf	D1922		10.0	13.5	16.5	23.0	27.5	
TD at 400gm			9.5	12.5	16.0	22.5	26.5		
<b>SEAL STRENGTH</b>									
MD\Hot Wire Seal	N/mm	F88		0.75	0.91	1.08	1.25	1.45	
TD\Hot Wire Seal			0.78	0.95	1.10	1.30	1.55		
<b>COF (Film To Film)</b>									
Static		D1894		0.23	0.21	0.19	0.22	0.25	
Dynamic			0.23	0.21	0.19	0.22	0.25		
<b>OPTICS</b>									
Haze		D1003		2.1	2.5	3.1	3.6	4.5	
Clarity		D1746		98.5	98.0	97.0	95.0	92.0	
Gloss @ 45Deg		D2457		88.0	87.0	84.0	82.0	81.0	
<b>BARRIER</b>									
Oxygen Transmission Rate	cc/m <sup>2</sup> /day	D3985		11500	10200	7700	5400	4500	
Water Vapor Transmission Rate	gm/m <sup>2</sup> /day	F1249		43.8	36.7	26.7	22.4	19.8	
<b>SHRINKAGE PROPERTIES</b>				MD		TD		MD	TD
Free Shrinkage	100°C	%	D2732	23	32	21	27		
	110°C			37	45	33	44		
	120°C			59	64	57	61		
	130°C			67	68	65	67		
				MD		TD		MD	TD
Shrink Tension	100°C	Mpa	D2838	1.85	2.65	1.90	2.60		
	110°C			2.65	3.50	2.85	3.65		
	120°C			2.85	3.65	2.95	3.60		
	130°C			2.65	3.20	2.75	3.05		

MD\Machine Direction TD\Transverse Direction

# LQG303 Cross-Linked Shrink Film



With crosslink technology, G303 is the universal film. This versatile shrink film is designed to be very user friendly.

G303 offers excellent shrinkage & burn through resistance, strong seals & a wide sealing temperature range, and outstanding puncture & tear resistance. It is suitable for nearly all packaging systems in use today.

G303 film shrinkage rate (up to 80%) has been greatly improved, brings perfect packaging performance. Moreover, the improved strength and toughness of the film, makes the packaging more solid, It also has better sealing performance, which makes the sealing more firm, and completely avoids the "wire drawing phenomenon at the sealing. It is suitable for nearly all packaging systems in use today.

**Thickness: 12 micron, 15 micron, 19 micron, 25 micron, 30 micron, 38 micron, 52 micron.**



TEST ITEM		UNIT	ASTM TEST	TYPICAL VALUES						
THICKNESS				12um	15um	19um	25um	30um	38um	52um
TENSILE										
Tensile Strength (MD)	N/mm <sup>2</sup>	D882		130	135	135	125	120	115	110
Tensile Strength (TD)				125	125	125	120	115	110	105
Elongation(MD)	%			115	120	120	120	125	130	140
Elongation (TD)				105	110	110	115	115	120	125
TEAR										
MD at 400gm	gf	D1922		11.5	14.5	18.5	27.0	32.0	38.5	41.5
TD at 400gm				12.5	17.0	22.5	30.0	35.0	42.5	47.5
SEAL STRENGTH										
MD/Hot Wire Seal	N/mm	F88		1.13	1.29	1.45	1.75	2.15	2.10	32
TD/Hot Wire Seal				1.18	1.43	1.65	1.75	2.10	2.10	33
COF (Film To Film)	-									
Static		D1894		0.23	0.19	0.18	0.22	0.23	0.25	0.21
Dynamic				0.23	0.19	0.18	0.22	0.23	0.25	0.2
OPTICS										
Haze		D1003		2.3	2.6	3.5	3.8	4.2	4.8	4.2
Clarity		D1746		98.5	98.8	98.0	97.5	94.0	92.0	97.5
Gloss @ 45Deg		D2457		88.5	88.0	87.5	86.0	86.0	85.0	84.5
BARRIER										
Oxygen Transmission Rate	cc/m <sup>2</sup> /day	D3985		10300	9500	6200	5400	4200	3700	2900
Water Vapor Transmission	gm/m <sup>2</sup> /day	F1249		32.5	27.5	20.5	14.5	11	9.5	8.5
SHRINKAGE PROPERTIES				MD	TD	MD	TD	MD	TD	
Free Shrinkage	100°C	%	D2732	17.5	27.5	16.0	26.0	15.0	24.5	
	110°C			36.5	44.5	34.0	43.0	31.5	40.5	
	120°C			70.5	72.0	68.5	67.0	65.5	64.5	
	130°C			81.0	79.5	80.0	79.0	80.5	80.0	
Shrink Tension		Mpa	D2838	MD	TD	MD	TD	MD	TD	
	100°C			2.30	2.55	2.70	2.85	2.65	2.85	
	110°C			2.90	3.85	3.40	4.10	3.35	4.05	
	120°C			3.45	4.25	3.85	4.65	3.75	4.55	
	130°C			3.20	3.90	3.30	4.00	3.55	4.15	

MD\Machine Direction TD\Transverse Direction

# LQA01 Low Temperature Cross-Linked Shrink Film



A01 is a cross-linked soft cross-linked shrink film. The most outstanding advantage is that it has very good low-temperature shrinkage performance. Besides of low temperature shrinkage, it also has high shrinkage, good transparency, high sealing strength, good toughness and good anti relaxation performance. It is the polyolefin heat shrinkable film with the best shrink packaging performance at present.

A01 can be used to package all kinds of articles. It is the most ideal heat shrinkable film for packaging soft products such as books and products with irregular shapes, Its low temperature shrinkage performance can protect heat sensitive products well, and can also avoid the "ribs" phenomenon at the corners of box shaped articles.

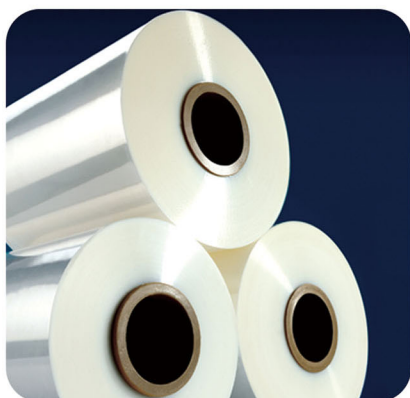
**Thickness: 11micron, 15micron,19micron.**



TEST ITEM		UNIT	ASTM TEST	TYPICAL VALUES		
THICKNESS				11um	15um	19um
<b>TENSILE</b>						
Tensile Strength (MD)	N/mm <sup>2</sup>	D882	100	105	110	
Tensile Strength (TD)			95	100	105	
Elongation(MD)	%	D882	110	115	120	
Elongation (TD)			100	110	115	
<b>TEAR</b>						
MD at 400gm	gf	D1922	9.5	14.5	18.5	
TD at 400gm			11.5	16.5	22.5	
<b>SEAL STRENGTH</b>						
MD\Hot Wire Seal	N/mm	F88	1.25	1.35	1.45	
TD\Hot Wire Seal			1.35	1.45	1.65	
<b>COF (Film To Film)</b>						
Static		D1894	0.26	0.24	0.22	
Dynamic			0.26	0.24	0.22	
<b>OPTICS</b>						
Haze		D1003	2.4	2.5	2.8	
Clarity		D1746	99.0	98.5	98.0	
Gloss @ 45Deg		D2457	88.0	88.0	87.5	
<b>BARRIER</b>						
Oxygen Transmission Rate	cc/m <sup>2</sup> /day	D3985	9600	8700	5900	
Water Vapor Transmission Rate	gm/m <sup>2</sup> /day	F1249	32.1	27.8	19.5	
<b>SHRINKAGE PROPERTIES</b>			<b>MD</b>		<b>TD</b>	
Free Shrinkage	90°C	%	D2732	17	23	
	100°C			34	41	
	110°C			60	66	
	120°C			78	77	
	130°C			82	82	
			<b>MD</b>	<b>TD</b>		
Shrink Tension	90°C	Mpa	D2838	1.70	1.85	
	100°C			1.90	2.55	
	110°C			2.50	3.20	
	120°C			2.70	3.50	
	130°C			2.45	3.05	

MD\Machine Direction TD\Transverse Direction

# LQS01 Post Consumer Recycling Polyolefin Shrink Film



This is a polyolefin shrink film contains 30% of post consumer recycled material. In addition to using a large number of PCR returns, this film has the same production process as G101, with basically same properties and application. It also has the advantages of good mechanical properties, good heat sealing, high shrinkage, and good adaptability to various packaging machines. The film has passed the GRS4.0 certification (global recycling standard certification).

**Thickness: 15 micron, 19 micron, 25 micron.**



TEST ITEM	UNIT	ASTM TEST	TYPICAL VALUES				
<b>INTRODUCTION</b>							
Post Consumer Recycling			30% Recycled post-consumer polyethylene(RM0193)				
THICKNESS			15um	19um	25um		
<b>TENSILE</b>							
Tensile Strength (MD)	N/mm <sup>2</sup>	D882	115	110	90		
Tensile Strength (TD)			110	105	85		
Elongation(MD)	%		105	110	105		
Elongation (TD)			100	105	95		
<b>TEAR</b>							
MD at 400gm	gf	D1922	10.5	13.5	16.5		
TD at 400gm			9.8	12.5	16.5		
<b>SEAL STRENGTH</b>							
MD\Hot Wire Seal	N/mm	F88	0.85	0.95	1.15		
TD\Hot Wire Seal			1.05	1.15	1.25		
<b>COF (Film To Film)</b>							
Static	-	D1894	0.20	0.18	0.22		
Dynamic			0.20	0.18	0.22		
<b>OPTICS</b>							
Haze		D1003	3.5	3.8	4.0		
Clarity		D1746	93.0	92.0	91.0		
Gloss @ 45Deg		D2457	85.0	82.0	80.0		
<b>BARRIER</b>							
Oxygen Transmission Rate	cc/m <sup>2</sup> /day	D3985	9200	8200	5600		
Water Vapor Transmission Rate	gm/m <sup>2</sup> /day	F1249	25.9	17.2	14.5		
<b>SHRINKAGE PROPERTIES</b>			MD	TD	MD	TD	
Free Shrinkage	100°C	%	D2732	17	26	14	23
	110°C			32	44	29	42
	120°C			54	59	53	60
	130°C			68	69	68	69
			MD	TD	MD	TD	
Shrink Tension	100°C	Mpa	D2838	1.65	2.35	1.70	2.25
	110°C			2.55	3.20	2.65	3.45
	120°C			2.70	3.45	2.95	3.65
	130°C			2.45	3.10	2.75	3.20

MD\Machine Direction TD\Transverse Direction

# Printing Shrink Film



Our printed shrink film and printable shrink film products are high-quality packaging solutions designed to enhance the visual appearance of your products while providing superior protection during shipping, handling, and storage. They are highly customizable, eco-friendly, and suitable for a wide range of packaging applications including food, pharmaceuticals, industrial, and consumer goods packaging. Widely used in waterproof rolls, food, beverage, and other industrial products.



# LQCF-202 Lidding Barrier Shrink Film



Scan for video



Lidding Barrier Shrink Film has high barrier, anti-fog and transparency features. It can effectively prevent the leakage of oxygen, nitrogen and other gases during refrigerated storage of meat and other foodstuff packaging, which helps to maintain their moisture, color and prolong the shelf life. It is ideal for fresh meat product packaging.

Thickness: 25 micron



TEST ITEM	UNIT	ASTM TEST	NORMAL VALUES
THICKNESS			25um
Tensile Strength (MD)	Mpa	D882	70
Tensile Strength (TD)			70
TEAR			
MD at 400gm	%	D2732	15
TD at 400gm			15
OPTICS			
Haze	%	D1003	4
Clarity		D1746	90
Gloss @ 45Deg		D2457	100
Oxygen Transmission Rate	cm <sup>3</sup> /(m <sup>2</sup> ·24h·0.1MPa)		15
Water Vapor Transmission Rate	gm/m <sup>2</sup> /day		20

MD\Machine Direction TD\Transverse Direction

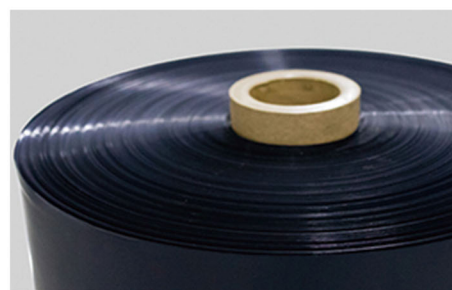
# LQCP Cross composite Film



LQCP cross -composite film is produced by drooling composite process. The high -density polyethylene (HDPE) is used as the main raw material. It is made by blowing plastic, unidirectional stretching, rotating cutting, and squeezing saliva composite. It is a high -strength film with good mechanical properties and balanced equilibrium. In the use of squeezed saliva composite production, the cross -composite film is the first domestic.

The typical application area of LQCP cross -composite film is waterproof coils. It can be used as a supporting material to produce double -sided asphalt waterproofing materials, and can also be used for surface production single -sided asphalt waterproof coils. The waterproof coils produced by LQCP cross -composite film have the advantages of good paving, good flatness, aging resistance, and not easy to edge or curl.

LQCP cross -composite film can also be used as packaging materials, which can significantly improve the strength, stiffness and tear resistance of packaging materials. In addition, the identification sign and tear -resistant label can be used outdoors.



TEST ITEM	UNIT	ASTM TEST	TYPICAL VALUES				
THICKNESS			88um	100um	220um (layers)		
<b>TENSILE</b>							
Tensile Strength (MD)	N/50mm <sup>2</sup>	GB/T35467-2017	290	290	580		
Tensile Strength (TD)			277	300	540		
Elongation(MD)	%		267	320	280		
Elongation (TD)			291	330	300		
<b>TEAR</b>							
MD at 400gm	gf	GB/T529-2008	33.0	38.0	72.0		
TD at 400gm			35.0	41.0	76.0		
<b>BARRIER</b>							
Water Vapor Transmission Rate		GB/T328.10-2007	waterproof				
<b>SHRINKAGE PROPERTIES</b>							
Free Shrinkage	100℃	%	D2732	MD	TD	MD	TD
	110℃			17	26	14	23
	120℃			32	44	29	42
			54	59	53	60	

MD\Machine Direction TD\Transverse Direction



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