Regular POF Shrink Film

Our Regular POF Shrink Film is strong, crystal clear, and heat-shrinkable with stable, even shrinkage. It's soft to the touch, stays flexible in cold temperatures, and provides clean, corrosion-free sealing with no fumes or buildup. Affordable and versatile, it works smoothly on most shrink-wrapping machines.

Test Item	Unit	ASTM Method	Typical Value				
Gauge	um		12	15	19	25	30
TENSILE							
Tensile Strength @ break MD	N/mm^2	D882	130	125	120	110	105
Tensile Strength@ break TD			125	120	115	105	100
Elongation@break MD	%		110	110	115	120	120
Elongation@break TD			105	105	110	115	115
TEAR							
Tear Strength @400gm MD	gf	D1922	10.0	13.5	16.5	23.0	27.5
Tear Strength@400gm TD			9.5	12.5	16.0	22.5	26.5
SEAL STRENGTH							
Hot Wire Seal MD	N/mm	F88	0.75	0.91	1.08	1.25	1.45
Hot Wire Seal TD			0.78	0.95	1.10	1.30	1.55
COEFFICIENT OF FRICTION (COF)							
Static		D1894	0.23	0.21	0.19	0.22	0.25
Dynamic			0.23	0.21	0.19	0.22	0.25
OPTICS							
Haze		D1003	2.1	2.5	3.1	3.6	4.5
Clarity		D1764	98.5	98.0	97.0	95.0	92.0
Gloss@45^0		D2457	88.6	87.0	84.0	82.0	81.0
BARRIER							
Oxygen Transmission Rate (OTR)	$cc/m^2/day$	D3985	11500	10200	7700	5400	4500
Water Vapor Transmission Rate (WVTR)	$gm/m^2/day$	F1249	43.8	36.7	26.7	22.4	19.8
SHRINKAGE PROPERTIES			**MD**		**TD**	**MD**	**TD**
Free Shrinkage 100^0C	%	D2732	23		32	21	27
110^0C			37		45	33	44
120^0C			59		64	33	44
130^0C			67		68	65	67
			MD		**TD**	**MD**	**TD**
Shrink Tension 100^0C	Mpa	D2838	1.85		2.65	1.90	2.60
110^0C			2.65		3.50	2.85	3.65
120^0C			2.85		3.65	2.95	3.60
130^0C			2.65		3.20	2.75	3.05

- The information in this data sheet represents typical values obtained in laboratory testing and should not be considered absolute or guaranteed. Only the properties and values stated in the Certificate of Quality are legally binding.
- The values in this report are subject to change at any time without prior notice from Amax Chemical.

Cross-linked POF Shrink Film

The polyolefin-based heat shrinkable film is soft cross-link shrink film with significant low-temperature shrinkage performance. High shrinkage, good transparency, high sealing strength, excellent toughness and good collation shrink force maintenance with uplifted toughness. It can be used to pack all kinds of articles

Test Item	Unit	ASTM Method	Typical Value		
Gauge	um		11	15	19
TENSILE					
Tensile Strength @ break MD	N/mm^2	D882	100	105	110
Tensile Strength@ break TD			95	100	105
Elongation@break MD	%		110	115	120
Elongation@break TD			100	110	115
TEAR					
Tear Strength @400gm MD	gf	D1922	9.5	14.5	18.5
Tear Strength@400gm TD			11.5	16.5	22.5
SEAL STRENGTH					
Hot Wire Seal MD	N/mm	F88	1.25	1.35	1.45
Hot Wire Seal TD			1.35	1.45	1.65
COEFFICIENT OF FRICTION (COF)					
Static		D1894	0.25	0.24	0.22
Dynamic			0.26	0.24	0.22
OPTICS					
Haze		D1003	2.4	2.5	2.8
Clarity		D1764	99.0	98.5	98.0
Gloss@45^0		D2457	88.0	88.0	87.5
BARRIER					
Oxygen Transmission Rate (OTR)	$cc/m^2/day$	D3985	9600	8700	5900
Water Vapor Transmission Rate (WVTR)	$gm/m^2/day$	F1249	32.1	27.8	19.5
SHRINKAGE PROPERTIES			MD		TD
Free Shrinkage 90^{0}C	%	D2732	17		23
100^{0}C			34		41
110^{0}C			60		66
120^{0}C			78		77
130^{0}C			82		82
			MD		TD
Shrink Tension 90^{0}C	Mpa	D2838	1.70		1.65
100^{0}C			1.90		2.55
110^{0}C			2.50		3.20
120^{0}C			2.70		3.50
130^{0}C			2.45		3.05

- The information in this data sheet represents typical values obtained in laboratory testing and should not be considered absolute or guaranteed. Only the properties and values stated in the Certificate of Quality are legally binding.
- The values in this report are subject to change at any time without prior notice from Amax Chemical.