

# Technical Data Sheet

# Cross-Linked Shrink Film

ITEM	UNIT	ASTM Test Method	Typical Values				
			12um	15um	19um	25um	30um
<b>THICKNESS</b>							
<b>TENSILE</b>							
Tensile Strength(MD)	N/mm <sup>2</sup>	D882	130	135	135	135	135
Tensile Strength(TD)			125	125	125	130	130
Elongation(MD)	%	D882	125	130	130	140	140
Elongation(TD)			120	125	120	130	135
<b>TEAR</b>							
MD	G	D1922	10	14.5	17.5	25.5	33.5
TD			9	13.5	16.5	25.0	30.0
<b>SEAL STRENGTH</b>							
MD\Hot Wire Seal	N/mm <sup>2</sup>	F88	1.13	1.29	1.45	1.75	2.15
TD\Hot Wire Seal			1.18	1.43	1.65	1.75	2.1
<b>COF(Film To Film)</b>							
Dynamic		D1894	0.23	0.20	0.22	0.25	0.25
Static			0.25	0.21	0.23	0.27	0.25
<b>OPTICS</b>							
Haze		D1003	2.3	2.6	3.5	3.8	4.2
Clarity		D1746	98.5	98.8	98.0	97.5	94.0
Gloss@45Deg		D2457	88.5	88.0	87.5	86.0	86.0
<b>BARRIER</b>							
Oxygen Transmission Rate	cc/m <sup>2</sup> /day	D3985	10300	9500	6200	5400	4500
Water Vapor Transmission Rate	gm/m <sup>2</sup> /day	F1249	34.5	29.5	21.5	15.5	11
<b>SHRINKAGE PROPERTIES</b>							
<b>THICKNESS</b>			12um	15um	19um	25um	30um
<b>Free Shrinkage</b>			MD		TD		
100°C	%	D2732	16		26		
110°C			34		43		
120°C			62		66		
130°C			81		79		
<b>Shrink Tension</b>							
100°C	Mpa	D2838	2.10		2.55		
110°C			2.70		3.85		
120°C			2.95		4.25		
130°C			2.80		4.00		
<b>LD=Longitudinal Direction/TD=Transverse Direction</b>							

Cross-linking technology makes WMF03 a perfect heat shrinkable film.

ZDF03 can help you solve packaging problems. Because WMF03 has excellent shrinkage, and the seal is firmer, lasting, and the shrinking temperature range is wider.

The excellent performance makes WMF03 suitable for any packaging machinery.

