

KAT 04		Anti Fog Cross Linked Shrink Film				
Test Item	Unit	ASTM TEST	Typical Values			
Thickness			12um	15um	19um	25um
TENSILE						
Tensile Strength MD	N/mm2	D882	120	125	130	130
Tensile Strength TD	N/mm2	D882	110	115	120	125
Elongation (MD)	%	D882	120	125	130	135
Elongation (TD)	%	D882	110	115	120	125
Tear						
MD	9	D1922	11	13	16.5	24
TD	9	D1922	10	11.5	15	22.5
SEAL STRENGTH						
MD\HOT WIRE SEAL	N/MM	F88	1.1	1.33	1.7	2.25
TD\HOT WIRE SEAL	N/MM	F88	1	1.23	1.6	2.05
COF (FILM TO FILM)						
Dynamic		D1894	0.31	0.29	0.27	0.26
Static		D1894	0.32	0.3	0.28	0.27
OPTICS						
Haze		D1003	3.8	4.8	5.5	5.8
Clarity		D1746	95.5	94.5	93.5	91
Gloss		D2457	82	80	78.5	76
Antifog Arrival time at 5dec C			2 Hours	2 Hours	2 Hours	2 Hours
Antifog Effect	Complete Transparent, no visible water					
BARRIER						
Oxygen Transmission Rate	cc/m2/day	D3985	9600	8700	6200	4900
Water Vapor Transmission Rate	gm/m2/day	F1249	30.7	27.3	19.5	16.5
SHRINKAGE PROPERTIES			MD		TD	
Free Shrinkage	100deg C	%	D2732	20	30	
	110deg C	%	D2733	38	45	
	120deg C	%	D2734	62	64	
	130deg C	%	D2735	81	78	
Shrink Tension	100deg C	Mpa	D2838	2.15	2.5	
	110deg C	Mpa	D2838	2.8	3.9	
	120deg C	Mpa	D2838	3.3	4.15	
	130deg C	Mpa	D2838	3.1	3.85	

Note: This information represents our best judgement on the work done, but the company assumes no liability whatsoever in connection with the use of information or findings contained herein.