

## Cryovac® CT-300 Series

### PRODUCT SPECIFICATION SHEET

### GENERAL PURPOSE SHRINK FILM

Film Data	Unit	Test Method	Typical Values						
			CT-301E	CT-302E	CT-303E	CT-304E	CT-305E	CT-306E	CT-308E
Thickness	μ	ASTM D6988	7	9	11	14	17	23	38
Yield	m <sup>2</sup> /kg	-	142	114	101	77	61	47	28
Length Centre Folded	lm	-	2667	2150	1905	1454	1143	885	533
Single Wound	lm	-	-	-	3810	2908	-	-	-
Width Centre Folded (50mm increment)	mm	-	From 155 to 955	From 155 to 955	From 155 to 1005	From 155 to 1080	From 155 to 1080	From 155 to 1080	From 155 to 905
Single Wound	mm	-	-	-	From 150 to 1145	From 150 to 1145	-	-	-
Core diameter	mm	-	76	76	76	76	76	76	76
<b>Mechanical</b>			<b>LD/ TD</b>						
Tensile strength	kg/cm <sup>2</sup>	ASTM D882-95	1400/1500	1300/1450	1250/1350	1200/1300	1200/1300	1200/1300	1000/1050
Elongation at break	%	ASTM D882-95	100/100	100/105	100/110	105/120	110/130	120/150	170/190
Modulus of elasticity	kg/cm <sup>2</sup>	ASTM D882-95	5500/5700	5450/5650	5400/5600	5250/5450	5100/5400	5000/5500	4000/4500
Tear propagation	g	ASTM D1938	2.5/3.5	2.8/4.0	3.3/4.5	5.0/7.3	7.0/10.0	10.0/15.0	18.0/27.0
Kinetic coeff. of friction	(film-to-film)	ASTM D1894	0.16	0.15	0.14	0.14	0.13	0.13	0.12
Puncture resistance	g	COV-E-236	1500	1800	2100	2500	3000	3600	4100
<b>Shrink and Barrier</b>									
Free shrink @ 120°C	%	ASTM D2732	65/65	65/65	65/65	65/65	65/65	65/65	65/65
Max. shrink tension	kg/cm <sup>2</sup>	COV-E-302	30/35	30/35	30/35	30/35	30/35	30/35	30/35
Moisture vapour transmission rate	g/m <sup>2</sup> /24hrs @ 38°C	ASTM F1249	42	38	36	30	24	17	12
Oxygen transmission rate	cm <sup>3</sup> /m <sup>2</sup> /24hrs @23°C, 1 atm	D3985-95	18000	16000	14500	11000	8000	6000	3400
CO2 transmission rate	cm <sup>3</sup> /m <sup>2</sup> /24hrs @23°C, 1 atm	ASTM D1434	61000	57000	53000	45000	35000	27000	15000
<b>Optical</b>									
Haze	%	ASTM D1003	2.9	3	3	3.3	3.5	4	5.5
Gloss	gloss units (i=60°)	ASTM D2457	135	134	134	132	131	129	125
<b>Storage Conditions</b>		Recommended conditions for long-term storage: Below 32°C, max RH 80%, for up to two year							
<b>Food Law Approval</b>		Complies with EU regulations on food contact materials. See "Product Regulatory Compliance Statement" for details.							
<b>Quality</b>		All Cryovac manufacturing operations in Europe have received or are applying for ISO 9001:2015 Quality Certification or its local equivalent							

LD = Longitudinal Direction / TD = Transverse Direction

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Degree of recyclability of the final package depends on the specific product configuration or components intended for recycling and the scope and availability of appropriate local recycling facilities.

