



CCS

Clean/Soft high performance
crosslinked shrink film

Vanguard Shrink Films CCS is a multi-layer, high clarity clean/soft shrink film and is formulated to shrink quickly at a lower shrink tunnel temperature. CCS is a polyolefin film that is ideal for wrapping flexible products that require a gentle, but complete shrink. This film is compatible with nearly all shrink wrapping equipment in use today.



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CCS Highlights:



VANGUARD
SHRINK FILMS

- ◆ Clean/Clear/Soft shrink with low shrink force
- ◆ Lower seal and shrink temperatures
- ◆ Excellent gloss and clarity
- ◆ Consistent machineability
- ◆ Will seal on most seal systems
- ◆ Complies with FDA and USDA regulations



Typical Properties	UNIT	ASTM Test Method	45G	60G	75G
Standard Roll Length	Feet	CW	5,830	4,375	3,500
		SW	11,660	8,750	7,000
Gloss @ 45 deg.	%	D2457	88	88	87
Haze	%	D1003	2.4	2.5	2.8
Clarity	%	D1746	99	98	98
Elongation at break (%)	%	D882	120	125	125
Shrink force @ 212°F (psi)	PSI	D2838	275/370	275/370	275/370
Tensile strength (psi)	PSI	D882	11,500	11,500	11,500
Tear strength (gms/ply)	g	D1922	10	14	21
Coefficient of friction (film to film:kinetic)		D1894	0.30	0.30	0.30
WVTR	gms/100si/24hrs	F1249	2.0	1.8	1.3
OTR	cc/M2/24hrs	D3985	9,400	8,700	5,900
Unrestrained shrink (%) @ 248°F	%	D2732	167	167	167
Stiffness modulus (psi)	PSI	D882	30,000	30,000	30,000